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FIELD MAINTENANCE PRINT SET

B-TC-TK70-0-DBU
B-DO-TK70-0-DBU
E-UA-TK70-0-DBU
K-PL-TK70-0-DBP
B-DD-5417637-0
D-UA-5417637-0-0
K-PL-5417637-0-DBP
K-CS-5417637-0-1
B-DD-5418272-0
D-UA-5418272-0-0
K-PL-5418272-0-DBP
K-CS-5418272-0-1
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K-PL-7021736-0-DBP
D-IA-7021732-0-DBU
K-PL-7021732-0-DBP
D-AD-7023477-0-DBU
K-PL-7023477-0-DBP
D-AD-7023497-0-DBU
K-PL-7023497-0-DBP
C-AD-7021738-0-DBU
K-PL-7021738-0-DBP
D-IA-7024656-0-DBU
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K-PL-7024657-0-DBP
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K-PL-7021111-0-DBP
C-IA-7023417-0-DBU
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C-AD-7021765-0-DBU
K-PL-7021765-0-DBP
UA-M7559
K-PL-M7559-0-DBP
CS-M7559
K-RM-TK70-0-DBF
B-DD-TCK70-0-DBU
B-DD-M7559-0
B-RM-TOK70-0-DBU

TK70 FIELD MAINTENANCE PRINT
TK70 DRAWING DIRECTORY
TK70 TAPE DRIVE ASSY
TK70 TAPE DRIVE ASSY (PL)
TK70 DRIVE BOARD (DO)
TK70 DRIVE BOARD
TK70 DRIVE BOARD (PL)
TK70 DRIVE BOARD (SCHEMATIC)
BEZEL DRIVE BOARD (DO)
BEZEL DRIVE BOARD
BEZEL DRIVE BOARD (PL)
BEZEL DRIVE BOARD (SCHEMATIC)
MOTOR & BASEPLATE ASSEMBLY
MOTOR & BASEPLATE ASSEMBLY (PL)
BASEPLATE ASSEMBLY
BASEPLATE ASSEMBLY (PL)
REEL DRIVER ASSEMBLY
REEL DRIVER ASSEMBLY (PL)
RECEIVER ASSY
RECEIVER ASSY (PL)
INTERPOSER ASSEMBLY
INTERPOSER ASSEMBLY (PL)
HANDLE ASSY
HANDLE ASSY (PL)
HANDLE, ENGAGING
HANDLE, ENGAGING (PL)
LEADER LATCH ASSY
LEADER LATCH ASSY (PL)
BRACKET HEAD ASSY
BRACKET HEAD ASSY (PL)
TACHOMETER ASSY
TACHOMETER ASSY (PL)
EXTERNAL SHIELD ASSY
EXTERNAL SHIELD ASSY (PL)
BEZEL ASSY
BEZEL ASSY (PL)
INSULATOR ASSY
INSULATOR ASSY (PL)
CONTROLLER
PARTS LIST
CIRCUIT SCHEMATIC
REVISION MATRIX DOCUMENT
TOK70 OPTION KIT
TOK70 TAPE CONTROLLER FOR TK70
TOK70 REVISION MATRIX DOCUMENT

TK70
FIELD MAINTENANCE
PRINT SET

DIGITAL EQUIPMENT
CORPORATION

PRINT SET PART NUMBER MP02294-01

MAG - MEDIA FILENAME: TK70-TC-DEUA

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digital

USED ON OPTION/MOD!

TK 70-AA

INFO TAB

L DRN.

R. PUDELKO

— | CHK'D K. CRANS

ENGLISH

ENO. P. BARTO

DATE: TITLE:

19 FEB 87

N DATE : 27 AUG 87

DATE : SIZE CO

DATE 27 AUG 87 B D

[View Details](#)

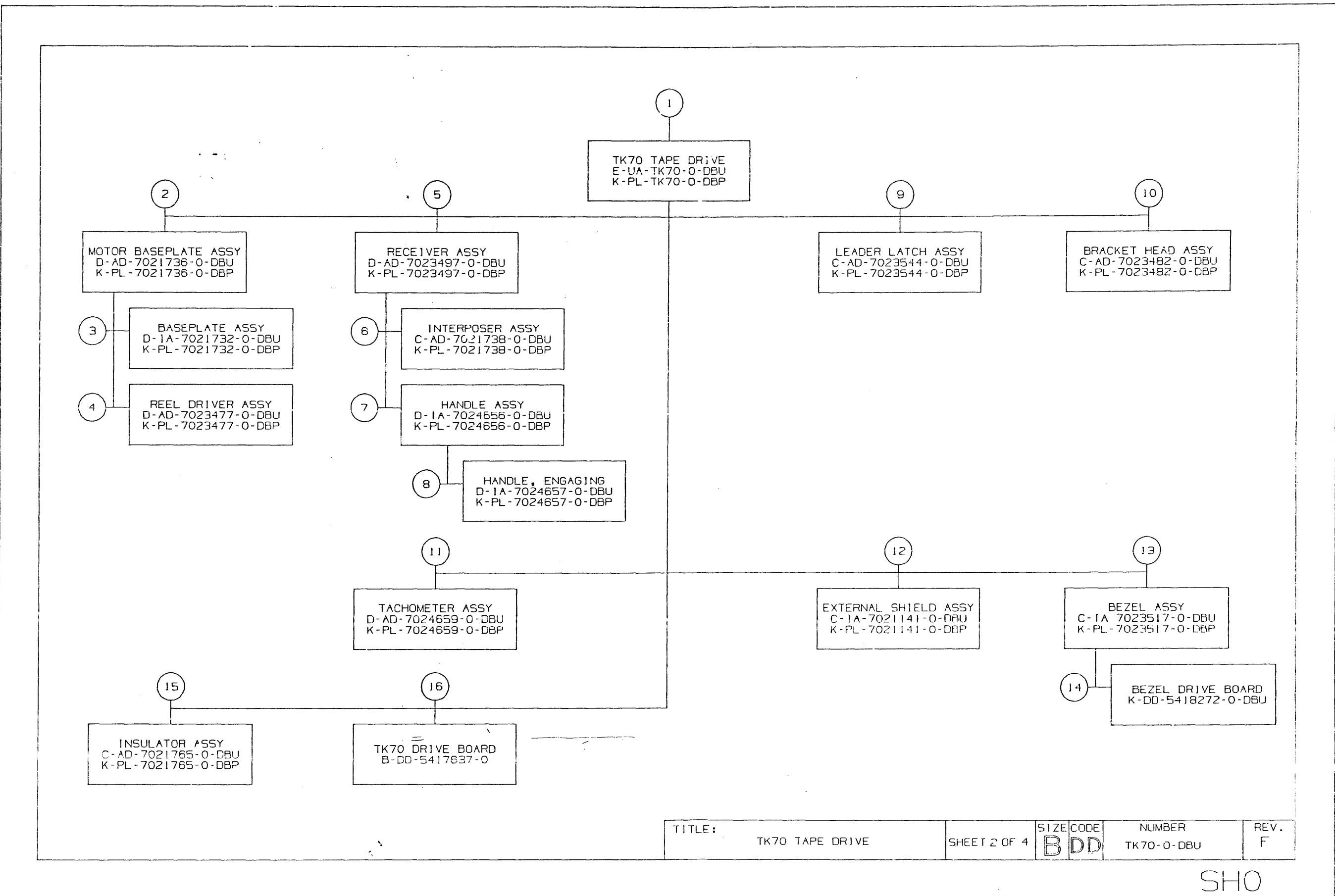
TK70 TAPE DRIVE

NUMBER

TK70-0-DBU

REV.

F



FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	MPO2294-01	TK70 FIELD MAINTENANCE PRINT SET	-		B-MD-7429216-0-DBU	SHAFT, PIVOT LINK	M
	B-TC-TK70-0-DBU	TK70 TABLE OF CONTENTS	-		D-MD-7429214-0-DBU	LINK, CLUTCH LEFT HAND	M
	E-UA-TK70-0-DBU	TK70 DRIVE ASSY	E/M		D-MD-7429213-0-DBU	LNK, CLUTCH RIGHT HAND	M
	K-PL-TK70-0-DBP	TK70 DRIVE ASSY (PL)	E/M		D-MD-7429212-0-DBU	FLOOR, RECEIVER	M
	K-RM-TK70-0-DBU	TK70 REV. MATRIX DOCUMENT	-		D-MD-7429211-0-DBU	PLATE, CLUTCH	M
	A-SP-TK70-0-1	TK70 PRODUCT SPECIFICATION	E/M		D-MD-7434496-0-DBU	LINK, BUCKLING	M
	D-MD-7427668-0-DBU	REEL, TAKE-UP	M		A-PS-3628810-0-DBU	DECAL, HANDLE	-
	D-MD-7429616-0-DBU	CONSTRAINT, TAPE	M				
	D-MD-7428268-0-DBU	LEADER, TAKE-UP	M				
	C-MD-7432344-0-DBU	GUARD, TAPE	M				
	B-MD-7429585-0-DBU	STRAIN RELIEF, HEAD	M				
	D-MD-7430728-0-DBU	BRACKET, SPRING SUPPORT	M				
	D-MD-7434038-0-DBU	CAPSTAN, TACHOMETER	M				
	D-MD-7425652-0-DBU	PLATE, SKID	M				
	C-MD-7435724-0-DBU	RETAINER, DAMPER	M				
	B-MD-7435725-0-DBU	DAMPER, VIBRATION	M				
	D-IA-7436424-0-DBU	ENCLOSURE	M				
	K-PL-7436424-0-DBP	ENCLOSURE (PL)	M				
2	D-AD-7021736-0-DBU	MOTOR & BASEPLATE ASSEMBLY	E/M				
	K-PL-7021736-0-DBP	MOTOR & BASEPLATE ASSEMBLY (PL)	-				
	C-MD-7431657-0-DBU	PLATE, DRIVER SPRING SUPPORT	M				
	B-MD-7429607-0-DBU	SHIELD, ACTUATOR	M				
3	D-IA-7021732-0-DBU	BASEPLATE ASSEMBLY	M				
	K-PL-7021732-0-DBP	BASEPLATE ASSEMBLY (PL)	-				
	D-MD-7427667-0-DBU	BASEPLATE, MACHINING	M				
	B-MD-7429210-0-DBU	PIN, DRIVER LINK	M				
	C-MD-7429209-0-DBU	SHAFT, PULLEY	M				
	B-MD-7429388-0-DBU	POST, HEAD GUIDE	M				
4	D-AD-7023477-0-DBU	REEL DRIVER ASSEMBLY	M				
	K-PL-7023477-0-DBP	REEL DRIVER ASSEMBLY (PL)	-				
	D-MD-7427691-0-DBU	HUB, DRIVER	M				
	E-MD-7427688-0-DBU	REEL, DRIVER	M				
5	D-AD-7023497-0-DBU	RECEIVER ASSY	M				
	K-PL-7023497-0-DBP	RECEIVER ASSY (PL)	-				
	E-MD-7432530-0-DBU	RECEIVER	M				

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL

digital

TITLE: TK70 TAPE DRIVE | SIZE CODE: B DD | NUMBER: TK70-0-DBU | REV: F
SHEET 3 OF 4

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
11	D-AD-7024659-0-DBU	TACHOMETER ASSY	M				
	K-PL-7024659-0-DBP	TACHOMETER ASSY (PL)	-				
	E-IA-7432341-0-DBU	BODY, TACHOMETER	M				
	D-MD-7427698-0-DBU	DISC, ENCODER	M				
	D-MD-7434038-0-DBU	CAPSTAN, TACHOMETER	M				
	D-MD-7429220-0-DBU	MASK, ENCODER	M				
	D-MD-7432343-0-DBU	GUIDE, TACHOMETER	M				
	C-MD-7432342-0-DBU	COVER PLATE, TACHOMETER	M				
	B-MD-7431389-0-DBU	RING SUPPORT CAPSTAN	M				
	B-MD-7032345-0-DBU	SHAFT, TACHOMETER	M				
12	C-IA-7021141-0-DBU	EXTERNAL SHIELD ASSY	M				
	K-PL-7021141-0-DBP	EXTERNAL SHIELD ASSY (PL)	-				
	D-MD-7429208-0-DBU	BRACKET, EXTERNAL SHIELD	M				
	B-MD-7429371-0-DBU	SHIELD	M				
13	C-IA-7023517-0-DBU	BEZEL ASSY	M				
	K-PL-7023517-0-DBP	BEZEL ASSY (PL)	-				
	E-MD-7434041-0-DBU	BEZEL	M				
	C-MD-7434166-0-DBU	BUTTON, PUSH	M				
	A-PS-3627465-0	DECAL, BEZEL TK70	-				
14	K-DD-5418272-0-DBU	BEZEL DRIVE BOARD	E/M				
15	C-AD-7021765-0-DBU	INSULATOR ASSY	M				
	K-PL-7021765-0-DBP	INSULATOR ASSY (PL)	-				
	D-MD-7430814-0-DBU	CLIP, GROUNDING (REWORKED)	M				
	C-MD-7431149-0-DBU	INSULATOR, SKID PLATE	M				
16	B-DD-5417637-0	TK70 DRIVE BOARD	E/M				

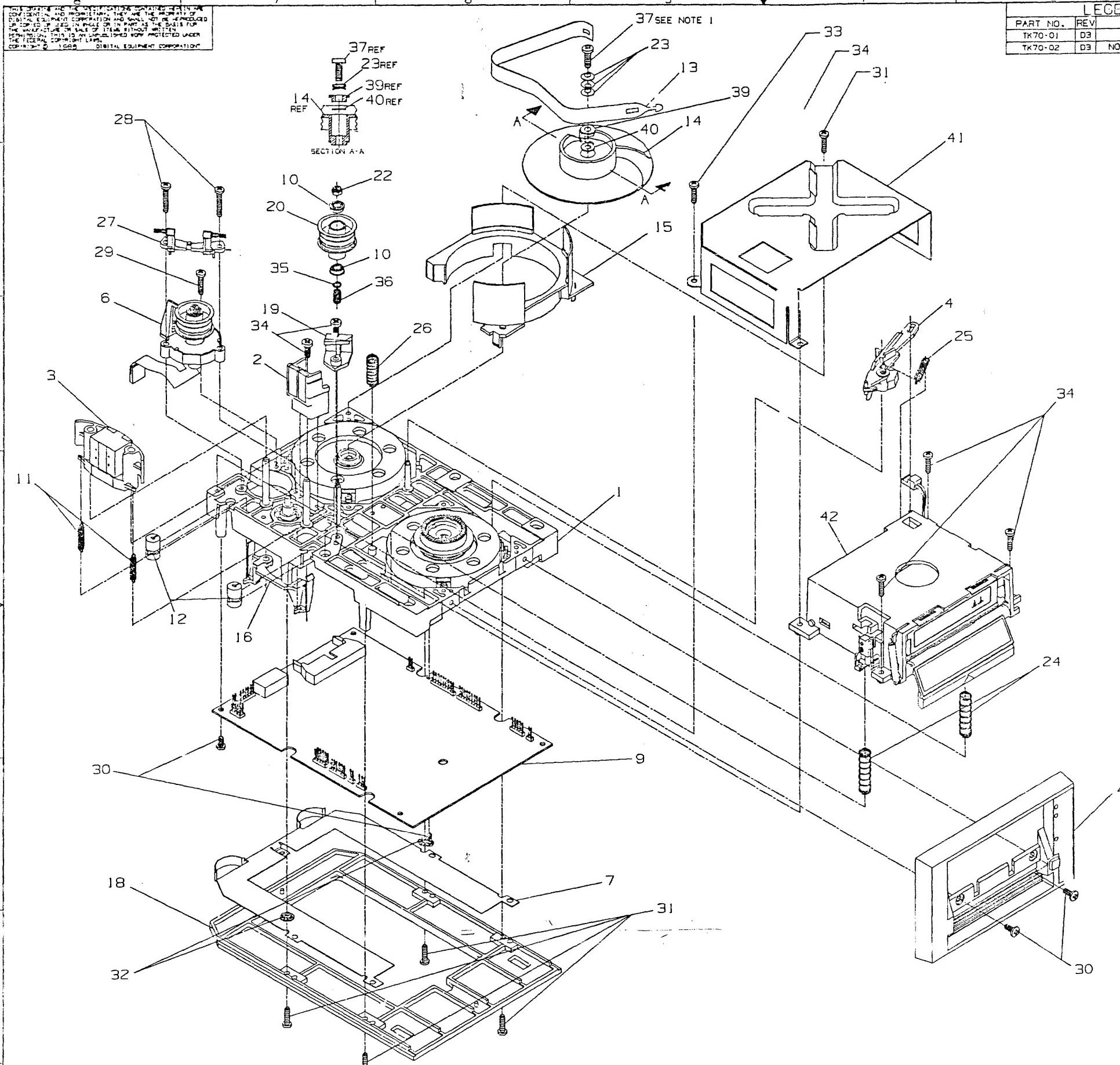
TYPE: E ELECTRICAL
 M MECHANICAL
 E/M ELECTRO/MECHANICAL

digital

TITLE: TK70 TAPE DRIVE | SIZE CODE | NUMBER | REV.
 SHEET 4 OF 4 | B DD | TK70-0-DBU | F

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LINE NO.	ITEM	A	B	C	D	E	F	G	H
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8



E-00-TK70-0-DHU

DESCRIPTION	DRAWING NO.	PART NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 1141)		
INCHES TOLERANCES	ANGLES TOLERANCES	DIMENSION RANGE IN INCHES
.000 + .000 .000 + .000 .000 + .000	.000 + .000 .000 + .000 .000 + .000	.000 + .000 .000 + .000 .000 + .000
DRAFTING PRACTICE NOTES DO NOT SCALE DRAWING. REMOVE BURRS AND BREAK SHARP CORNERS MATERIAL SEE PARTS LIST		
R. PUCELNO DAP A.HIGGINS DAP P.BARTON DAP K.CRANSON F. BELLIVEAU	26 FEB 87 10 AUG 87 10 AUG 87 10 AUG 87 10 AUG 87	TK70 TAPE DRIVE ASSY
DOCUMENT NUMBER		
E-00-TK70-0-DHU		

CAUTION
OFF SHEET PARTS LIST EXISTS
SEE K-PL-TK70-0-DBP

E-00-TK70-0-DHU

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NOTES:

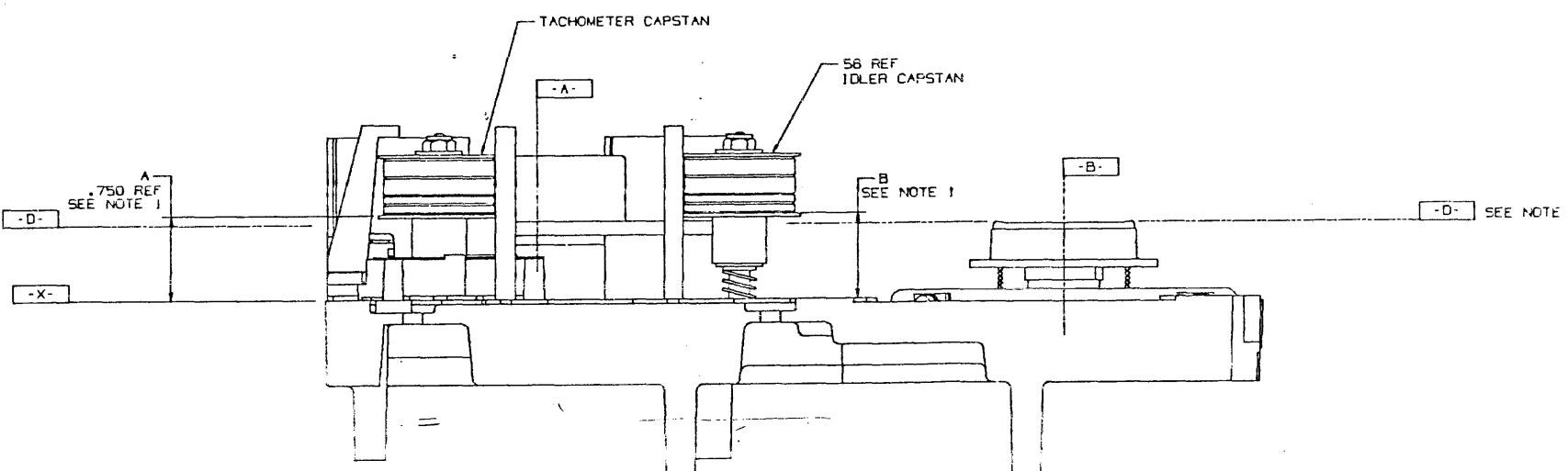
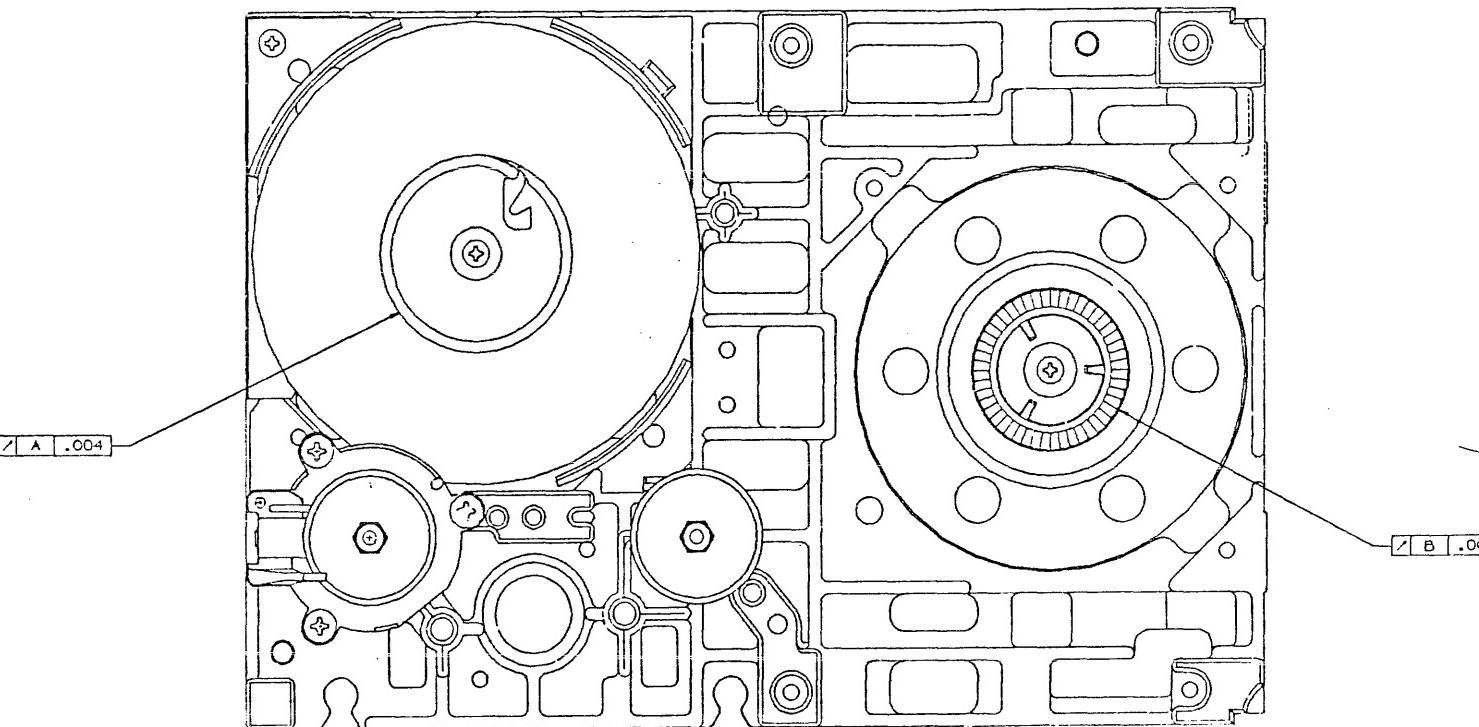
1. ADJUST EACH CAPSTAN HEIGHT (A & B) SUCH THAT THE LOWER FLANGE OF EACH LIES IN PLANE .C92 ± .002 ABOVE THE MEASURED DATUM [-D-] AND THE DIFFERENCE IN HEIGHT OF THE LOWER FLANGES OF THE CAPSTAN IS ± .001.

CONDITIONS TO BE MET:

DIMENSIONS A-C = .092 ± .002

DIMENSIONS B-C = .092 ± .002

DIMENSIONS |A-B| ≤ .001



REVISION HISTORY		
DATE	ECO HISTORY	REV

TITLE
TK70 TAPE DRIVE
AC-1

DOCUMENT NUMBER		
SIZE CODE	NUMBER	
E UA	TK70-0-DBU	
		F

LINE ITEM	TOP DOCUMENT	PART NUMBER	REV	DESCRIPTION	01 003	02 003
1	1 D-AD-7021736-0-DBU	70-21736-02		MOTOR BASEPLATE ASSY	1	1
2	2 C-IA-7021141-0-DBU	70-21141-01		EXTERNAL SHIELD ASSY.	1	1
3	3 C-AD-7023482-0-DBU	70-23482-01		TK70 RECORDING HEAD (1/2" TAPE)	1	1
4	4 C-AD-7023544-0-DBU	70-23544-01		LEADER LATCH ASSY	1	1
5	5			*** THIS ITEM IS NOT USED ***	-	-
6	6 D-AD-7024659-0-DBU	70-24659-01		TACHOMETER ASSY	1	1
7	7 C-AD-7021765-0-DBU	70-21765-01		INSULATOR ASSY.	1	-
8	8			*** THIS ITEM IS NOT USED ***	-	-
9	9 D-IA-5417637-0-DBU	54-17637-01		TK70 DRIVE MODULE	1	1
10	10 A-SP-1222788-0-DBU	12-22788-01		BEARING,BALL,FLANGED	2	2
11	11 A-SP-1222895-0-DBU	12-22895-01		SPRING,EXTENSION,HEAD BRACKET	2	2
12	12 B-MD-7429585-0-DBU	74-29585-01		STRAIN RELIEF,HEAD	2	2
13	13 D-MD-7428268-0-DBU	74-28268-01		LEADER,CARTRIDGE (TAKE-UP)	1	1
14	14 D-MD-7427668-0-DBU	74-27668-01		REEL,TAKE-UP	1	1
15	15 D-MD-7429616-0-DBU	74-29616-01		CONSTRAINT,TAPE	1	1
16	16 D-MD-7430728-0-DBU	74-30728-01		BRACKET,HEAD SPRING	1	1
17	17 C-AD-7024666-0-DBU	70-24666-01		*** THIS ITEM IS NOT USED ***	-	-
18	18 D-MD-7425652-0-DBU	74-25652-01		PLATE,SKID	1	-
19	19 C-MD-7432344-0-DBU	74-32344-01		GUARD, TAPE	1	1
20	20 D-MD-7434038-0-DBU	74-34038-01		CAPSTAN, TACHOMETER	1	1
21	21 A-PS-1224692-0-0	12-24692-02		*** THIS ITEM IS NOT USED ***	-	-
22	22 A-PS-9008054-0-DBU	90-08054-00		NUT,HEX SLF LCKNG NYL INS 4-40X	1	1
23	23 A-PS-9010506-0-0	90-10506-01		WASHER,SPRING BELLEVILLE STEEL .	3	3
24	24 A-PS-1222357-0-DBU	12-22357-01		SPRING,COMPRESSION .3200DX	2	2
25	25 A-PS-1222358-0-DBU	12-22358-01		SPRING,EXTENSION .2600D	1	1
26	26 A-PS-1212912-0-DBU	12-12912-01		SPRING,COMPRESSION .3000DX1.00 LG	1	1
27	27 A-PS-1123276-0-DBU	11-23276-01		EOT/BOT LED-PHOTO ASSY	1	1
28	28 A-PS-9000049-0-DBU	90-00049-58		SCREW,SEMS 6-32 PAN .750 XRCs	2	2
29	29 A-PS-9010109-0-DBU	90-10109-00		SCREW,SEMS 6-32 PAN .625 XRCs	1	1
30	30 A-PS-9010717-0-DBU	90-10717-01		SCREW,MACH 6-32 PAN .250 XRCs	4	4

REVISION HISTORY			KPL MATRIX FORMAT SECTION A OF A DRN: R. PUDELKO		
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		
---	INITIAL	A	[A] 01.02	CHK'D: A.HIGGINS	D I G I T A L
EW	TK70-SH001	B	[B]	DATE: 06-AUG-87	TITLE PARTS LIST
PB	TK70-SH002	C	[C]	DES.ENG: P.BARTON	TK70 TAPE DRIVE ASSY
EW	TK70-SH003	D	[D]	DATE: 06-AUG-87	DOCUMENT NUMBER
PB	TK70-SH004	E	[E]	RESP.ENG.: K.CRANSON	SIZE CODE NUMBER REV
PB	TK70-SH005	F	[F]	DATE: 06-AUG-87	K PL TK70-0-DBP F
			[H]	MFG.ENG: F.BELLIVEAN	RELEASE DATE: 01-FEB-90
			[J]	DATE: 06-AUG-87	RELEASE STATUS: RELEASED
BASIC PART NUMBER: TK70			ASSEMBLY NUMBER: E-UA-TK70-0-DBU		
FILE NAME: TK70F.PLS			TOP DOCUMENT NUMBER: B-DD-TK70-0-DBU		
			EDIT # 2		

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AUTOMATED BY VAXKPL (V2.1-3)

OWNER: SHR

P A R T S L I S T

SHEET A2

OF A2

PAGE 2 OF

2

QUANTITY PER VARIATION/REVISION

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	01 D03	02 D03
31	31 A-PS-9006022-0-DBU	90-06022-01		SCREW, MACH 6-32 PAN .375 XRCS	4	-
32	32 A-PS-9009882-0-DBU	90-09882-00		WASHER, LOCK INTERNAL SST	2	-
33	33 A-PS-9000049-0-DBU	90-00049-36		SCREW, THRL 6-32 PAN .500 XRCS	1	1
34	34 A-PS-9010174-0-DBU	90-10174-03		SCREW, SEMS 6-32 PAN .500 XRCS	6	6
35	35 A-PS-1224692-0-DBU	12-24692-03		WASHER, FLAT	1	1
36	36 A-PS-1213656-0-DBU	12-13656-05		SPRING, COMPRESSION .23500X .83 LG	1	1
37	37 A-PS-9006022-0-0	90-06045-01	A	SCREW, MACH 8-32 PAN XRCS	1	1
38	38 A-PS-9010174-0-DBU	90-10174-01		*** THIS ITEM IS NOT USED ***	-	-
39	39 C-MD-7435724-0-DBU	74-35724-01		RETAINER, DAMPER	1	1
40	40 B-MD-7435725-0-DBU	74-35725-01		DAMPER, VIBRATION	1	1
41	41 D-IA-7436424-0-DBU	74-36424-01		ENCLOSURE	1	1
42	42 D-AD-7023497-0-DBU	70-23497-02		RECEIVER ASSY NOTCHED	1	1
43	43 D-AD-7023517-0-DBU	70-23517-02		BEZEL ASSY, NOTCHED	1	1

D I G I T A L

TITLE
TK70 TAPE DRIVE ASSY

SECTION A OF A

SIZE CODE DOCUMENT NUMBER REV
K PL TK70-0-DBP F

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS																																												
				A1	A2	A3	A4	A5	B5																																							
		5417637-01	TK70 DRIVE																																													
I-UA-5417637-0-0	5		TK70 DRIVE	A	B	C	D	E	F																																							
K-PL-5417637-0-DBP	4		PARTS LIST (SH291)	A	B	C	D	E	F																																							
K-CS-5417637-0-DBS	-		CIRCUIT SCHEMATIC DATA BASE	A	B	B	B	C	C																																							
K-PC-5417637-0-DBV	-		P.C. DESIGN DATA BASE	A	A	B	B	B	C																																							
K-CS-5417637-0-1	2		CIRCUIT SCHEMATIC	A	B	B	B	C	C																																							
		5017636-01	ETCH CIRCUIT BOARD	A1	A1	A2	A2	A2	A2																																							
B-DD-5017636-0	1		DRAWING DIRECTORY	A	A	B	B	B	B																																							
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<table border="1"> <thead> <tr> <th colspan="2">REVISION HISTORY</th> </tr> <tr> <th>DATE</th> <th>ECO NO</th> <th>REV</th> </tr> </thead> <tbody> <tr> <td>FEb 87</td> <td>INIT</td> <td>A</td> </tr> <tr> <td>APR 88</td> <td>SH001</td> <td>B</td> </tr> <tr> <td>JUN 88</td> <td>SH002</td> <td>C</td> </tr> <tr> <td>MAR 89</td> <td>SH003</td> <td>D</td> </tr> <tr> <td>MAY 89</td> <td>SH004</td> <td>E</td> </tr> <tr> <td>DEC 89</td> <td>SH005</td> <td>F</td> </tr> </tbody> </table>																			REVISION HISTORY		DATE	ECO NO	REV	FEb 87	INIT	A	APR 88	SH001	B	JUN 88	SH002	C	MAR 89	SH003	D	MAY 89	SH004	E	DEC 89	SH005	F							
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DATE	ECO NO	REV																																														
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APR 88	SH001	B																																														
JUN 88	SH002	C																																														
MAR 89	SH003	D																																														
MAY 89	SH004	E																																														
DEC 89	SH005	F																																														
<table border="1"> <tr> <td>DRN. R. KOPPENAL</td> <td>DATE 23FEB87</td> <td colspan="3">TITLE : TK70 DRIVE</td> </tr> <tr> <td>CHKO. R. KOPPENAL</td> <td>DATE 23FEB87</td> <td colspan="3">DOCUMENTATION NUMBER</td> </tr> <tr> <td>DES. ENG. D. BEAUREGARD</td> <td>DATE 10FEB87</td> <td colspan="3">NUMBER</td> </tr> <tr> <td>RESP. ENG. D. BEAUREGARD</td> <td>DATE 10FEB87</td> <td>SIZE</td> <td>CODE</td> <td>REV.</td> </tr> <tr> <td>MFG. ENG. C. SWEENEY</td> <td>DATE 12MAR87</td> <td>5417637-0</td> <td>F</td> <td></td> </tr> <tr> <td></td> <td></td> <td>SHEET 1</td> <td>OF 1</td> <td></td> </tr> </table>																			DRN. R. KOPPENAL	DATE 23FEB87	TITLE : TK70 DRIVE			CHKO. R. KOPPENAL	DATE 23FEB87	DOCUMENTATION NUMBER			DES. ENG. D. BEAUREGARD	DATE 10FEB87	NUMBER			RESP. ENG. D. BEAUREGARD	DATE 10FEB87	SIZE	CODE	REV.	MFG. ENG. C. SWEENEY	DATE 12MAR87	5417637-0	F				SHEET 1	OF 1	
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		SHEET 1	OF 1																																													

DPE 126C
EN-01242-16-REVAC 396

8	A1a	0-0-5417637-0-0	7	6	5	4	3	2	1
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This drawing contains the following information:
 1. Schematic symbols and component designators.
 2. Component locations and part numbers.
 3. Pinouts for integrated circuits (ICs) and other components.
 4. Power supply connections and ground planes.
 5. Various connection points labeled J103, J33, J100, J30, J50, J10, J8, J9, J6, TH1, TH2, TH3, and TH4.

VIEWED FROM SIDE 1
COMPONENT SIDE

3-1, 5-1

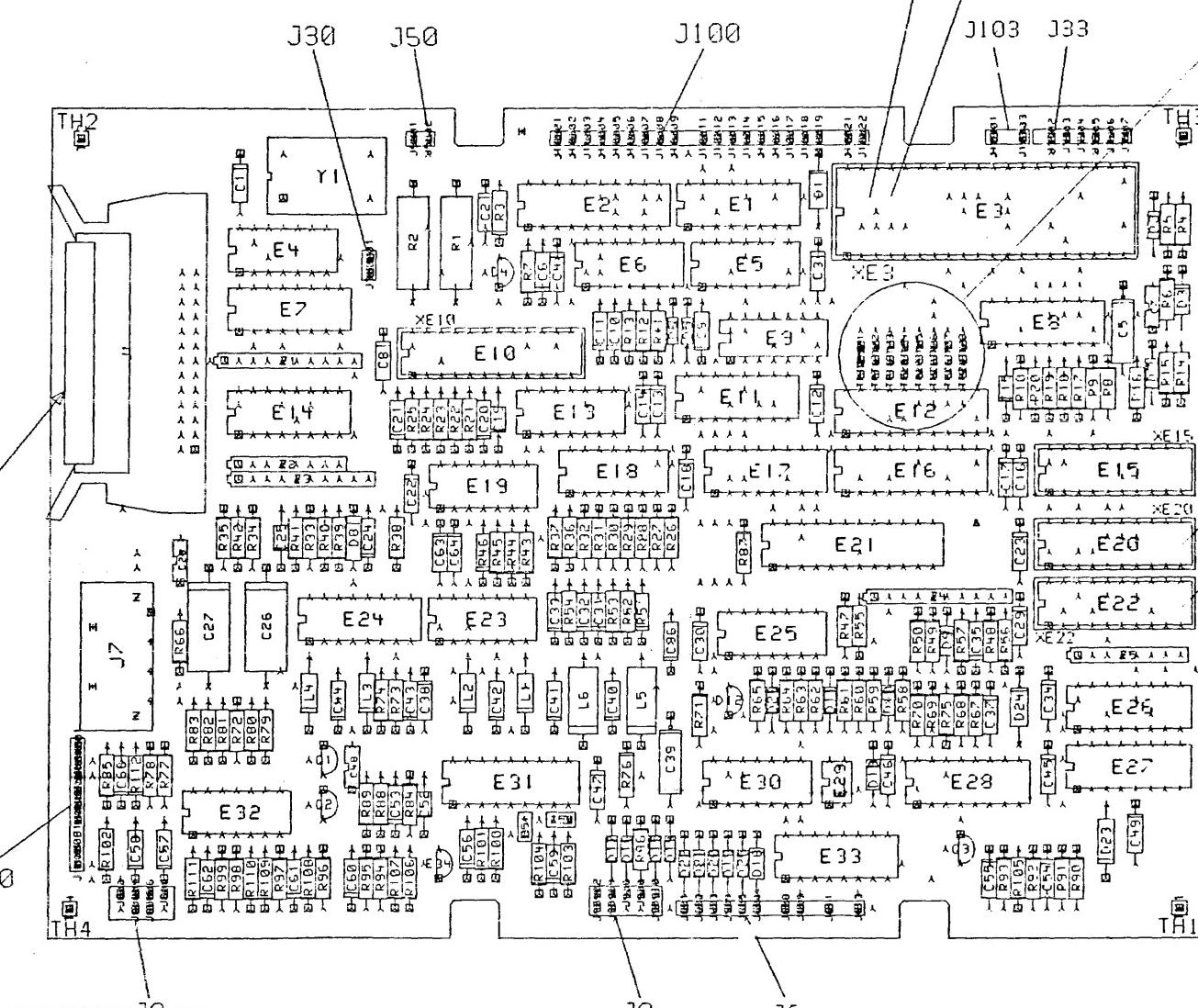
3-2, 5-2

SEE DETAIL A

DETAIL A

(W2)	(W3)	(W4)	(W5)	(W6)	(W7)	(W8)	
TF1	TP2	TP3	TP4	TP5	TP6	TP7	TP8
<input type="checkbox"/>							
TP9	TP10	TP11	TP12	TP13	TP14	TP15	TP16
<input type="checkbox"/>							
TP17	TP18	TP19	TP20	TP21	TP22	TP23	TP24
<input type="checkbox"/>							

SEE NOTE 3



4-1: 4-3

4-2: 4-4

CHK DRAWN BY: R. KOPPENAL	ENGINEER: A.M. HICKEY	CHANGE NO: SH001	DATE: 4/88	REV: E	CHK DRAWN BY:	ENGINEER:	CHANGE NO:	DATE:	REV:
RK	L. BARRETT	A.M. HICKEY	SH002	6/88	C				
RK	G. BURDENKO	A.M. HICKEY	SH003	3/89	D				
RK	L. BARRETT	A.M. HICKEY	SH004	5/89	E				
RK	G. BURDENKO	SULLIVAN	SH005	12/89	F				

NOTES				
1. SPARE I.C. LOCATIONS ARE : E21.				
2. TP1-TP24 WILL BE USED TO SET DRIVE				
(ELECTRICAL/MECHANICAL) HARDWARE				
REVISION FOR FIELD SERVICE.				
3. PLACE BARCODE AT THIS LOCATION.				

SIGNATURES		DATE	digital
DRAWN: STU EVANS JR.	REVIS:	01/08/88	
CHECKED: KOPPENAL	APPROVED:	01/08/88	
MECH ENG: D. REQUECHO	DESIGNED:	01/08/88	
PROJ ENG: D. REQUECHO	SPECIFIED:	01/08/88	
PROD: C. SHEENY	MANUFACTURED:	01/08/88	

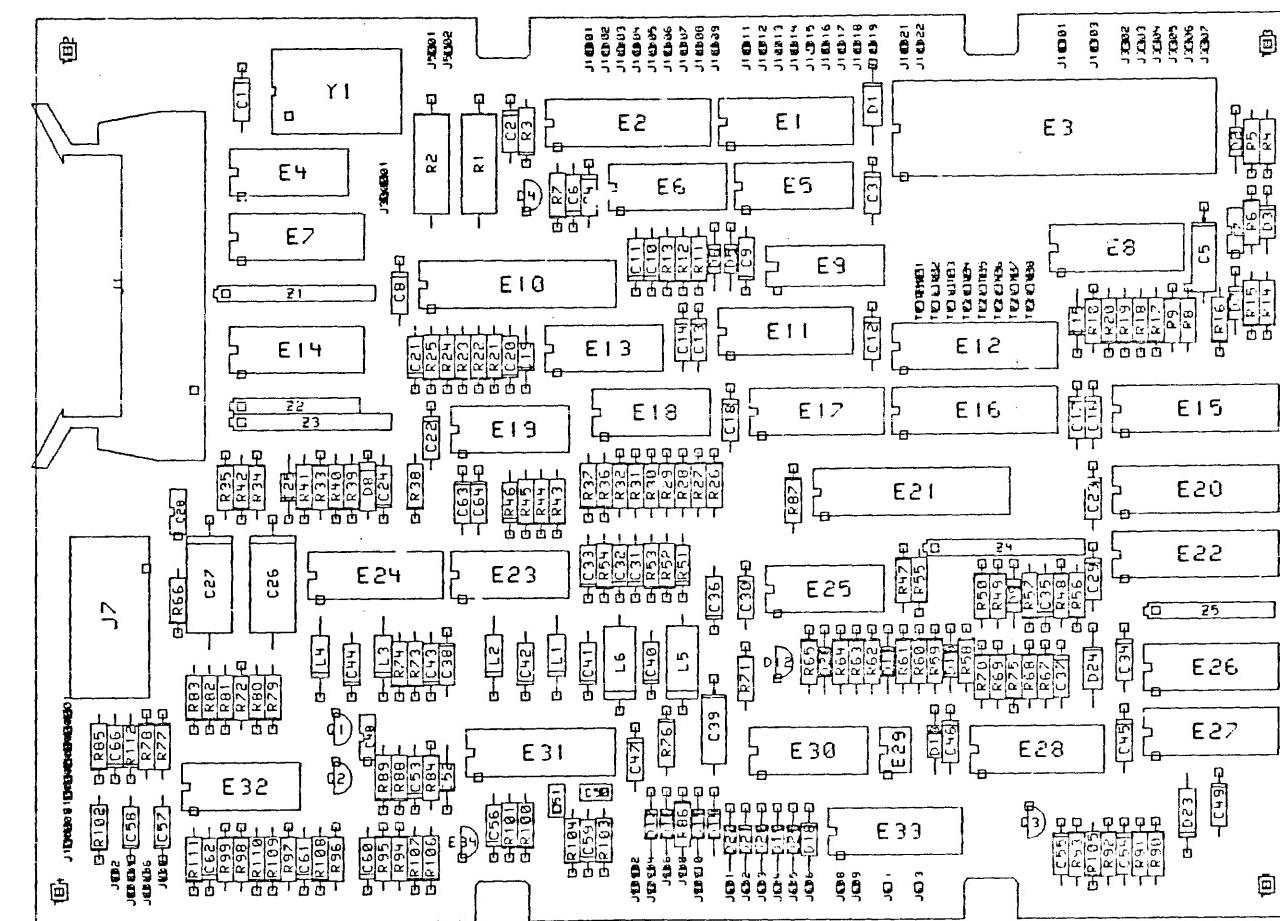
SCALE: 1/1	SIZE: 1/4	NUMBER: 5.417637-0-0	REV: F
SHEET 1 OF 5		TOP DOC NO: B-00-5417637-0	

8 F 9415637-D-0 7 STEREO 6 5 4 3 2 1

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COMPAQ © 1986 DIGITAL EQUIPMENT CORPORATION

VIEWED FROM SIDE

COMPONENT SIDE

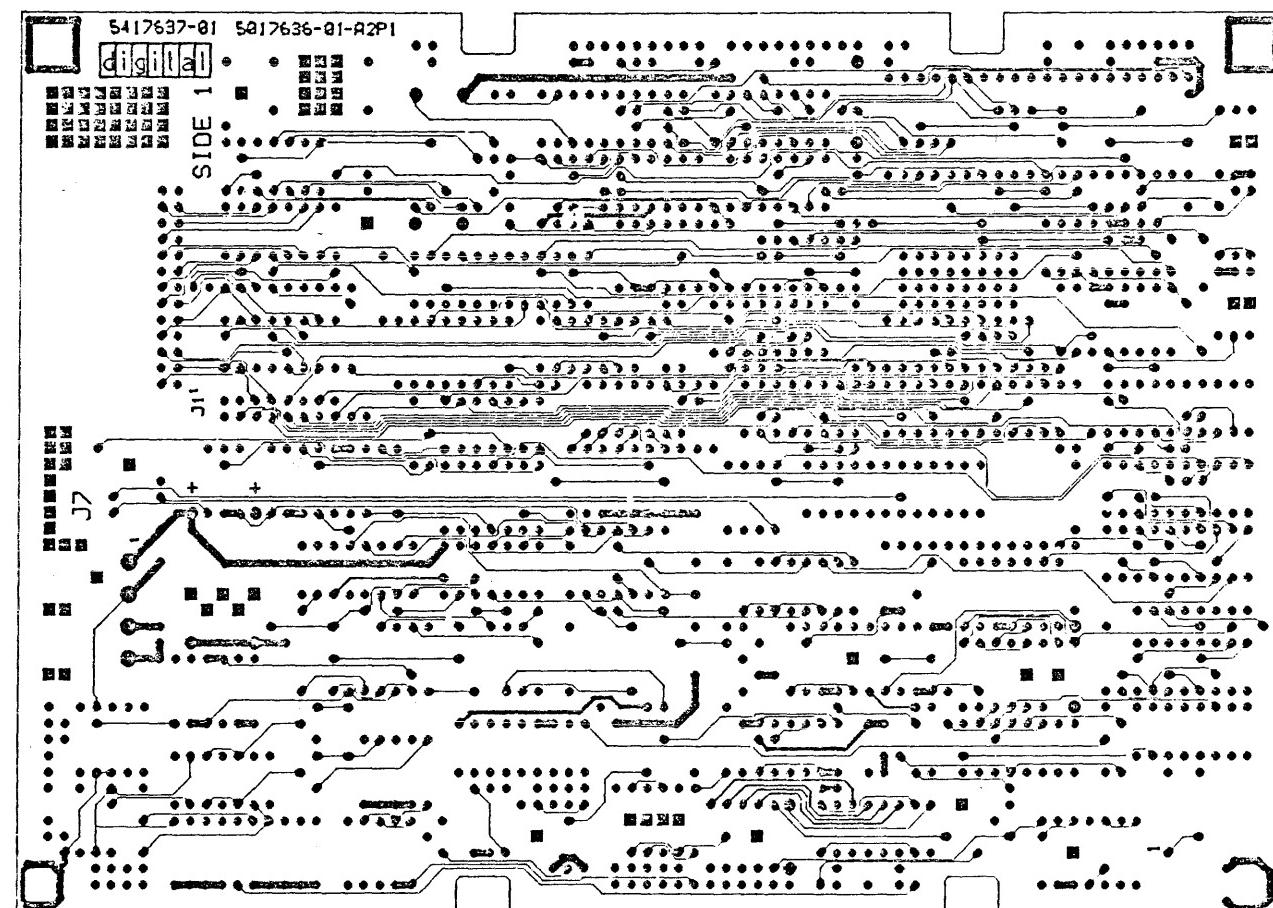


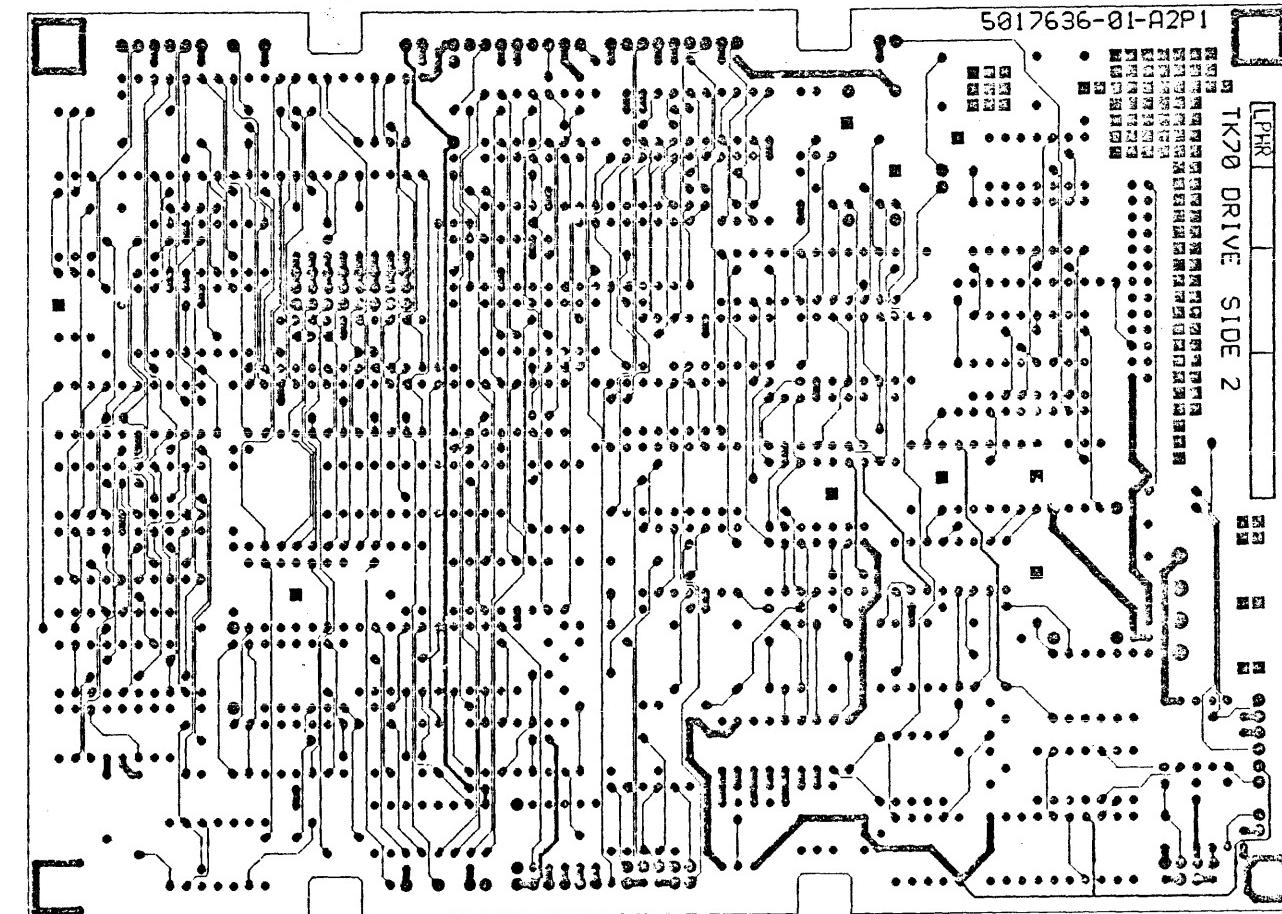
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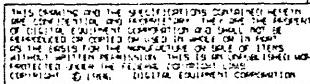
DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV
<input type="checkbox"/>	UA	E417637-01-C1	F
SCALE 2/1		SHEET 2 OF 5	

TITLE

8

8	3	4	5	6	7	8	9	10	11	12	13	14	15					
 <p>LAYER 1 VIEWED FROM SIDE 1</p>																		
<p>DOCUMENT NUMBER</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">SIZE/CODE</td> <td style="width: 10%;">NUMBER</td> <td style="width: 10%;">REV</td> </tr> <tr> <td><input type="checkbox"/> UA</td> <td>5417637-0-0</td> <td>F</td> </tr> </table> <p>SCALE 2:1 SHEET 1 OF 5</p> <p>1 MO# 408764A</p>													SIZE/CODE	NUMBER	REV	<input type="checkbox"/> UA	5417637-0-0	F
SIZE/CODE	NUMBER	REV																
<input type="checkbox"/> UA	5417637-0-0	F																
8	7	6	5	4	3	2	1											

8	3 A3 0-0-1892105 REV 0 0002.015	6	5	4 V 4	3	2	1
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<p>LAYER 4</p> <p>VIEWED FROM SIDE 2</p> 							
<small>DOCUMENT NUMBER NUMBER REV 5017636-01-A2P1 LPHR TK70 DRIVE SIDE 2</small>							
<small>SIZE CODE SHEET 1 OF 6 SCALE 2X1 TITLE TK70 DRIVE 1 MCIN 400MM-4FL</small>							

8	3	0-0-092165 REV A	0	7	6	5	↓	4	3	2	1																																																
																																																											
D REWORK INSTRUCTIONS :																																																											
<p>ECO #3 :</p> <p>SIDE 1 (COMPONENT SIDE 1)</p> <p>COMPONENT DELETES :</p> <p>3-1 P/N 23-1M9-00 MICROCOMPUTER EPROM REF DES E3 QTY 1</p> <p>COMPONENT ADDS :</p> <p>3-2 P/N 23-2MA-00 MICROCOMPUTER ROM REF DES E3 NEW QTY 1</p>																																																											
<p>ECO #4 :</p> <p>SIDE 1 (COMPONENT SIDE 1)</p> <p>COMPONENT DELETES :</p> <p>4-1 P/N 23-152K5-00 K5-07 PAL REF DES E20 QTY 1</p> <p>4-2 P/N 23-156K5-00 K5-07 PAL REF DES E22 QTY 1</p> <p>COMPONENT ADDS :</p> <p>4-3 P/N 23-200K5-00 K5-14 PAL REF DES E20 QTY 1</p> <p>4-4 P/N 23-199K5-00 K5-14 PAL REV DES E22 QTY 1</p>																																																											
<p>ECO #5 :</p> <p>SIDE 1 (COMPONENT SIDE 1)</p> <p>COMPONENT DELETES :</p> <p>5-1 P/N 23-2MA-00 MICROCOMPUTER W/8 KBYTE EPROM REF DES E3 QTY 1</p> <p>COMPONENT ADDS :</p> <p>5-2 P/N 23-3MA-00 MICROCOMPUTER W/8 KBYTE EPROM REF DES E3 QTY 1</p>																																																											
B C D E F G H																																																											
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								TK20 DRIVE		REV F																																																	
								E417637-0-0		SCALE 2/1																																																	
								SHEET 1 OF 5		1 WO# 408764																																																	
8	7	6	5	A	4	3	2																																																				

LINE ITEM	TOP DOCUMENT	PART NUMBER	REV	MIN	DESCRIPTION	01 B05	REFERENCE DESIGNATORS
1	1	B-DD-5017636-0		50-17636-01	CIRCUIT DRILL & ETCH	1	
2	2			10-00064-00	3.9 MFD 10V +/-10% SOL	1	C39
3	3			10-01610-00	0.010MFD 50V +80/-20% Z5U C	3	C15,C19,C25
4	4			10-01776-00	1.0 MFD 35V +/-10% SOL	1	C5
5	5			10-12084-01	8.0 MFD 25V +75/-10% 85	2	C26,C27
6	6			10-12784-00	0.047MFD 50V +80/-20% Z5U C	2	C38,C43
7	7			10-13466-01	10 PFD 50V +/- 5% NPO C	2	C40,C52
8	8			10-13466-06	100 PFD 50V +/- 5% NPO C	2	C63,C64
9	9			10-13466-07	220 PFD 50V +/- 5% NPO C	3	C9,C33,C49
10	10			10-13466-09	1000 PFD 50V +/-10% X7R C	1	C20
11	11			10-13466-22	0.10 MFD 50V +80/-20% Z5U C	31	CONT C1-C4,C8,C10,C12-C14,C16-C18, CONT C21-C23,C29-C32,C34,C37, CONT C45-C47,C53,C54,C56,C59-C62
12	12			10-13466-24	47 PFD 50V +/- 5% NPO C	1	C44
13	13			10-13466-26	120 PFD 50V +/- 5% NPO C	2	C41,C42
14	14			10-13466-40	270 PFD 50V +/- 5% NPO C	1	C55
15	15			10-13466-57	0.033MFD 50V +/-10% X7R C	1	C35
16	16			10-14265-02	0.33 MFD 50V +80/-20% Z5U C	3	C7,C28,C48
17	17			10-15573-01	5600 PFD 50V +/- 5% X7R C	2	C6,C11
18	18			10-18200-02	120 PFD 50V +/- 1% NPO C	1	C50
19	19			10-18200-03	220 PFD 50V +/- 5% NPO C	1	C51
20	20			10-26297-01	3300 PFD 50V +/- 5% X7R C	2	C24,C36
21	21			11-03441-00	VZ= 8.2 5% 400 MW 1N756A	1	D3
22	22				*** THIS ITEM IS NOT USED ***	-	
23	23			11-09991-00	VZ= 6.8 5% 400 MW 1N754A	1	D8
24	24			11-11577-00	PIV= 50 I0=200 MA - 4NS 1N4454	12	02,05,06,D11,D14-D17,D19-D22
25	25			11-14117-00	PIV= 40 I0= 75 A -4NS 1N4152	3	D9,D10,D13
26	26			11-17166-00	PIV= 20 I0= 1.00A D0-35	2	D1,D24
27	27			11-22804-01	VZ= 4.7 1% 1N5522D	1	D7
28	SEE NOTE #	28		12-10385-01	PCB HEADER PIN	63	J601-J606,J608,J609,J611,J613.

REVISION HISTORY			KPL MODULE FORMAT	SECTION A OF A	DRN: R. KOPPENAL	D I G I T A L					
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX			DATE: 24-FEB-87	TITLE PARTS LIST				
---	INITIAL	A	[A]	01	[M]	CHK'D: R. KOPPENAL	TK70 DRIVE				
A.H	5417637-SH001	B	[B]		[N]	DATE: 24-FEB-87					
A.H	5417637-SH002	C	[C]		[P]	DES.ENG: DAVE BEAUREGARD					
A.H	5417637-SH003	D	[D]		[Q]	DATE: 24-FEB-87					
A.H	5417637-SH004	E	[E]		[R]	RESP.ENG.: DAVE BEAUREGARD	DOCUMENT NUMBER				
P.S	5417637-SH005	F	[F]		[S]	DATE: 24-FEB-87	SIZE	CODE	NUMBER	! REV	
			[H]		[T]	MFG.ENG: G. KIAH	K	PL	5417637-0-DBP	F	
			[J]		[V]	DATE: 24-FEB-87					
			[K]		[W]	RELEASE DATE: 07-DEC-89					
			[L]		[Y]	RELEASE STATUS: RELEASED					
			BASIC PART NUMBER: 5417637			ASSEMBLY NUMBER: D-UA-5417637-0-0	TOP DOCUMENT NUMBER: B-DD-5417637-0			EDIT # 3	
			FILE NAME: SH291F.PLS								

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LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	01 B05	REFERENCE DESIGNATORS
29	29	12-15006-04	SKT, IC	20PIN DIP TIN	SOLD 3	CONT J802-J806, J808, J901-J904, J905,
30	30	12-15006-08	SKT, IC	40PIN DIP TIN	SOLD 1	CONT J908-J910, J1001-J1006, J1008,
31	31	12-15006-13	SKT, IC	24PIN DIP TIN	SOLD 1	CONT J1009, J3001, J3002, J3302-J3307,
32	32	12-16832-01	PCB, HEADER	26POS(2X13).100CC 90D	1	CONT J5001, J5002, TP2-TP8, TP10-TP16,
33	33	12-18783-00	JUMPER	02POS(1X02).100CC	8	CONT TP18-TP24
34	34	12-18855-00	PCB, HEADER	04POS(1X04).200CC 90D	1	XE15, XE20, XE22
35	35	13-00219-00	68.0	.25 W 5.0 %	CF 1	XE3
36	36	13-00247-00	120.0	.25 W 5.0 %	CF 1	XE10
37	37	13-00250-00	150.0	.25 W 5.0 %	CF 2	J1
38	38	13-00365-00	1.0 K	.25 W 5.0 %	CF 4	W2-W8, W30
39	39	13-00391-00	1.50 K	.25 W 5.0 %	CF 2	J7
40	40	13-00439-00	3.30 K	.25 W 5.0 %	CF 5	R76
41	41	13-00479-00	10.0 K	.25 W 5.0 %	CF 5	R3
42	42	13-00488-00	12.0 K	.25 W 5.0 %	CF 1	R10, R16
43	43	13-00496-00	15.0 K	.25 W 5.0 %	CF 1	R13, R17, R64, R65
44	44	13-01322-00	180.0	.25 W 5.0 %	CF 2	R84, R110
45	45	13-01401-00	750.0	.25 W 5.0 %	CF 2	R62, R63, R98, R103, R108
46	46	13-01808-00	22.0 K	.25 W 5.0 %	CF 2	R18, R21, R36, R37, R69
47	47	13-01890-00	560.0	.25 W 5.0 %	CF 3	R11
48	48	13-02388-00	2.0 K	.25 W 5.0 %	CF 5	R19
49	49	13-02391-00	20.0 K	.25 W 5.0 %	CF 2	R83, R102
50	50	13-02396-00	150.0 K	.25 W 5.0 %	CF 1	R6, R14
51	51	13-02411-00	511.0	.25 W 1.0 % RN55D-F10	1	R77, R78
52	52	13-02466-00	100.0 K	.25 W 5.0 %	CF 1	R75, R100, R101
53	53	13-02887-00	130.0	.25 W 1.0 % RN55D-F10	1	R12, R20, R25, R50, R96
54	54	13-02931-00	49.90	.25 W 1.0 % RN55D-F10	1	R39
55	55	13-02955-00	750.0	.25 W 1.0 % RN55D-F10	3	R5
56	56	13-02956-00	196.0	.25 W 1.0 % RN55D-F10	1	R48, R73, R105
57	57	13-03114-00	1.0 K	.25 W 1.0 % RN55D-F10	1	R70
58	58	13-03176-00	1.60 K	.25 W 5.0 %	CF 2	R42, R79, R80
59	59	13-03178-00	620.0	.25 W 5.0 %	CF 1	R93
60	60	13-03312-00	10.0 K	.25 W 1.0 % RN55D-F10	1	R9, R81
61	61	13-04839-00	51.0 K	.25 W 5.0 %	CF 1	R8
62	62	13-04866-00	2.0 K	.25 W 1.0 % RN55D-F10	4	R7
63	63	13-05253-00	7.15 K	.25 W 1.0 % RN55D-F10	2	R57, R94, R95, R104
64	64	13-05336-00	200.0 K	.25 W 1.0 % RN55D-F10	2	R54, R58
65	65	13-05426-00	392.0 K	.25 W 1.0 % RN55D-F10	2	R106, R107
66	66	13-09595-00	1.0 M	.25 W 5.0 %	CF 1	R45
67	67	13-10631-00	2.21 K	.25 W 1.0 % RN55D-F10	1	R26, R91
68	68	13-10634-00	2.67 K	.25 W 1.0 % RN55D-F10	2	R34
69	69	13-10635-00	13.0 K	.25 W 1.0 % RN55D-F10	1	R52, R53
70	70	13-11867-00	.50	.23.0 W 1.0 % WW	2	R33
71	71	13-12545-00	2.32 K	.25 W 1.0 % RN55D-F10	5	R1, R2
72	72	13-12546-00	16.50 K	.25 W 1.0 % RN55D-F10	1	R4, R97, R99, R109, R111
73	73	13-12930-00	5.10 K	.25 W 5.0 %	CF 2	R41
						R60, R67

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							TK70 DRIVE		K	PL	5417637-0-DBP	F

LINE ITEM

TOP DOCUMENT

PART NUMBER

MIN

REV

DESCRIPTION

01
B05

REFERENCE DESIGNATORS

74	74		13-13154-00	124.0	K	.25	W	1.0	%	RN55D-F10	1	R31
75	75		13-13155-00	604.0		.25	W	1.0	%	RN55D-F10	1	R15
76	76		13-13590-00	1.50	K	.25	W	1.0	%	RN55D-F10	1	R68
77	77		13-13596-00	20.0	K	.25	W	1.0	%	RN55D-F10	2	R38,R40
78	78		13-14251-00	61.90	K	.25	W	1.0	%	RN55D-F10	2	R29,R44
79	79		13-14387-00	3.90	M	.25	W	5.0	%	CF	1	R32
80	80		13-14516-00	200.0	K	.25	W	5.0	%	CF	2	R61,R92
81	81		13-15271-00	154.0		.25	W	1.0	%	RN55D-F10	1	R22
82	82		13-16395-00	R. NET				4.7K-	9	2.0	2	Z3,Z4
83	83		13-16836-00	402.0		.25	W	1.0	%	RN55D-F10	2	R23,R85
84	84		13-16842-00	6.34	K	.25	W	1.0	%	RN55D-F10	2	R88,R89
85	85		13-17522-00	1.0		.25	W	5.0	%	CF	1	R66
86	86		13-18150-10	4.02	K	.25	W	1.0	%	RN55D-F10	1	R74
87	87		13-19531-01	221.0		.25	W	1.0	%	RN55D-F10	2	R72,R82
88	88		13-20414-01	2.0	M	.25	W	5.0	%	CF	1	R30
89	89		13-20415-03	249.0	K	.25	W	1.0	%	RN55D-F10	1	R28
90	90		13-20415-04	499.0	K	.25	W	1.0	%	RN55D-F10	1	R27
91	91		13-22716-01	R. NET				120.0	-	7	2.0	Z2,Z5
92	92		13-23770-01	R. NET	220.0	-	8	270.0	-	8	2.0	Z1
93	93		15-13490-00	2N 4403		PNP	350MW	SI-40	30			Q1-Q3
94	94		15-14962-00	TPQ2907		PNP	500MW	SI	40	100		E30
95	95		15-16287-02	ULN2003-A		NPN	DARLINGTON	ARRAY				E33
96	96		15-17364-01	3083		NPN	ARRAY	16PIN	DIP			E8,E24
97	97		15-17998-00	3127		NPN	425MW	ARRAY	16PIN			E28
98	98		15-24009-01	IFRD9123		FET	60V	.8A	P-CHNNL	4		E29
99	99		16-11317-00	470	UH	5%	120MA	Z(MIN)=65				L5,L6
100	100		16-12946-07	220	UH	10%	Q MIN=26@.	.79MHZ				L1-L4
101	101		18-11660-21	OSCILLATOR, XTAL			24.000	MHZ				Y1
102	102		19-10236-00	DEC 7426		NAND	GATE-QUAD	2IN,0				E25
103	103		19-10532-00	74S00		NAND	GATE-QUAD	2IN				E9
104	104		19-10544-00	74S74		FF-D	DUAL,EDGE	TRIGG				E13
105	105		19-11911-00	DEC 74S124		OSCILLATOR,DUAL	VOLT					E27
106	106		19-12107-01	324ANOP		AMP,QUAD						E6
107	107		19-12108-00	LM339		VOLT	CMPRTR,QUAD					E19
108	108		19-12801-00	LS02		NOR-GATE-QUAD	2IN					E5
109	109		19-12850-00	LS164		SHIFT	REG.	8BIT	SERI			E4
110	110		19-12860-00	LS259		LATCH	8BIT					E1
111	111		19-14082-00	74S163		COUNTER,SYNCH	UP/DOW					E26
112	112		19-14560-00	LS368		DRIVER,BUS,HEX,TRI-S						E11,E17
113	113		19-15123-00	26LS32		RECEIVER,QUAD,EIA	RS					E14
114	114		19-15193-00	LS244		DRIVER,LINE,OCTAL,TR						E12,E16
115	115		19-15851-00	26LS31		DRIVER,QUAD,EIA	RS	4				E7
116	116		19-18177-00	78L05AC		VOLT	REG,FIX	+5V				E34
117	117		19-18277-00	3470		READ	AMP,FLOPPY	DISK				E31
118	118		19-19006-00	LM	336A	VOLT	REF.	2.49V	1%			D12
119	119		19-19684-01	LM	385B2	PREC	VOLT	REF.	1.23			D4
120	120		19-21283-01	3799		PNP	900MW	60V	50MA			E32
121	121		19-22108-01	7528		DAC,	8BIT,MULTI					E2
122	122		21-13614-00	4024B		COUNTER-BINARY	7STAG					E18
123	123		21-26235-01	DG302A		SWITCH,CMOS	ANALOG,T					E23

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
									K	PL	5417637-0-DBP	F
							TK70 DRIVE					

LINE ITEM

TOP DOCUMENT

PART NUMBER REV

MIN

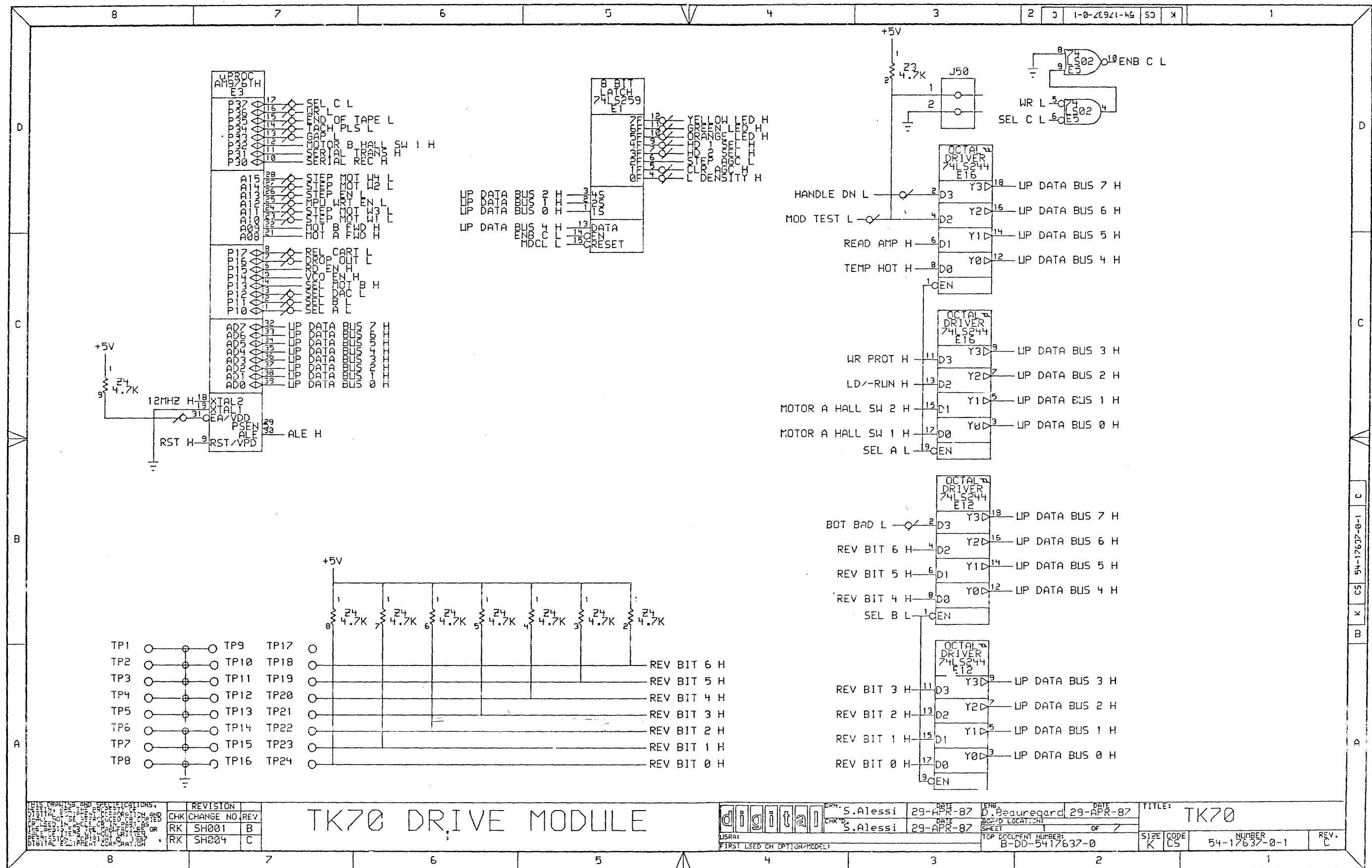
DESCRIPTION

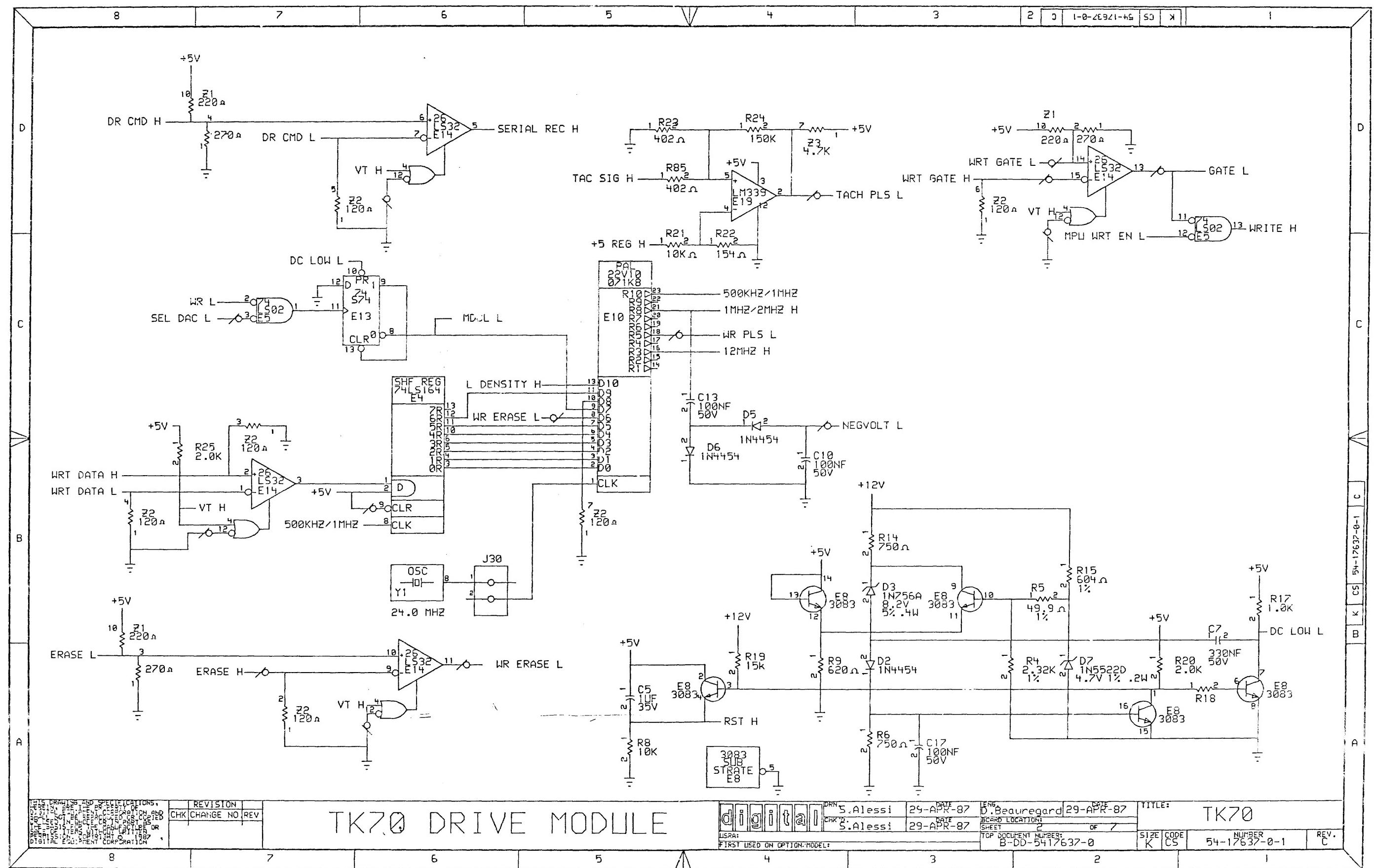
QTY PER VAR/REV
01
B05

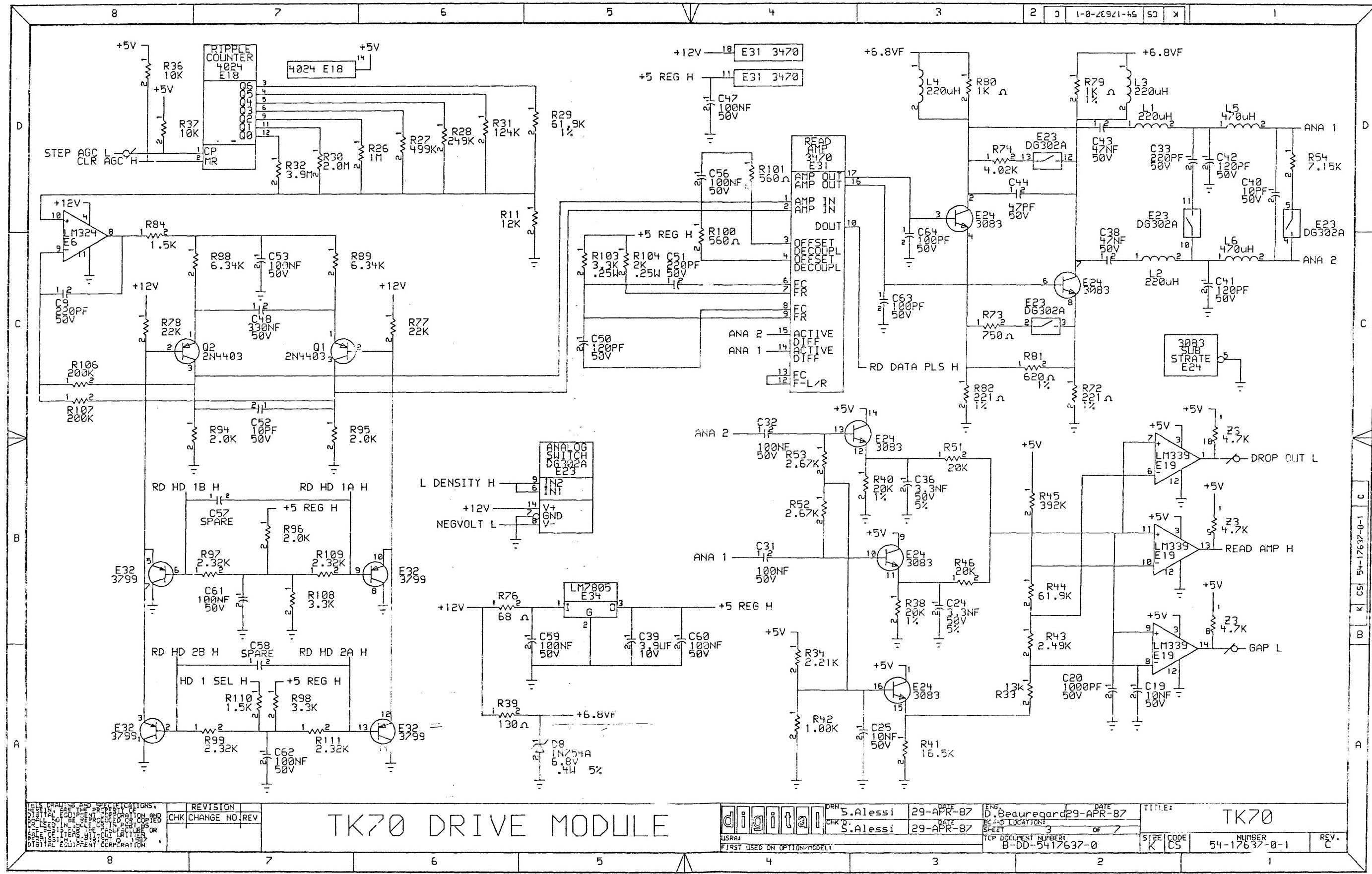
						REFERENCE DESIGNATORS
124	124	23-K8 -02	*** THIS ITEM IS NOT USED ***	-		
125	125	23-156K5-00	*** THIS ITEM IS NOT USED ***	-		
126	126	23-157K5-00	*** THIS ITEM IS NOT USED ***	-		
127	127	23-172K5-00	K5-07 PAL	1	E15	
128	128	23-M9 -01	*** THIS ITEM IS NOT USED ***	-		
129	129	11-16824-03	10PF VARIABLE CAP DIODE 5%	1	D23	
130	130	13-05123-00	215.0 .25 W 1.0 % RN55D-F10	1	R47	
131	131	13-10632-00	2.37 K .25 W 1.0 % RN55D-F10	2	R71 ,R86	
132	132	13-12626-00	2.49 K .25 W 1.0 % RN55D-F10	1	R43	
133	133	13-05126-00	619.0 .25 W 1.0 % RN55D-F10	1	R49	
134	134	13-14041-00	3.01 K .25 W 1.0 % RN55D-F10	1	R59	
135	135	13-02751-00	30.0 .25 W 5.0 % CF	1	R87	
136	136	13-00197-00	33.0 .25 W 5.0 % CF	1	R112	
137	137	23-1M9 -00	*** THIS ITEM IS NOT USED ***	-		
138	138	23-71K8 -00	K8-02 PAL,HIGH SPEE	1	E10	
139	139	11-14507-00	VZ= 24.0 5% 1 W 1N4749A	1	D18	
140	140	23-2MA -00	*** THIS ITEM IS NOT USED ***	-		
141	141	23-199K5-00	K5-14 PAL	1	E22	
142	142	23-200K5-00	K5-14 PAL	1	E20	
143	143	23-3MA -00	MA-01 ROM MICR	1	E3	

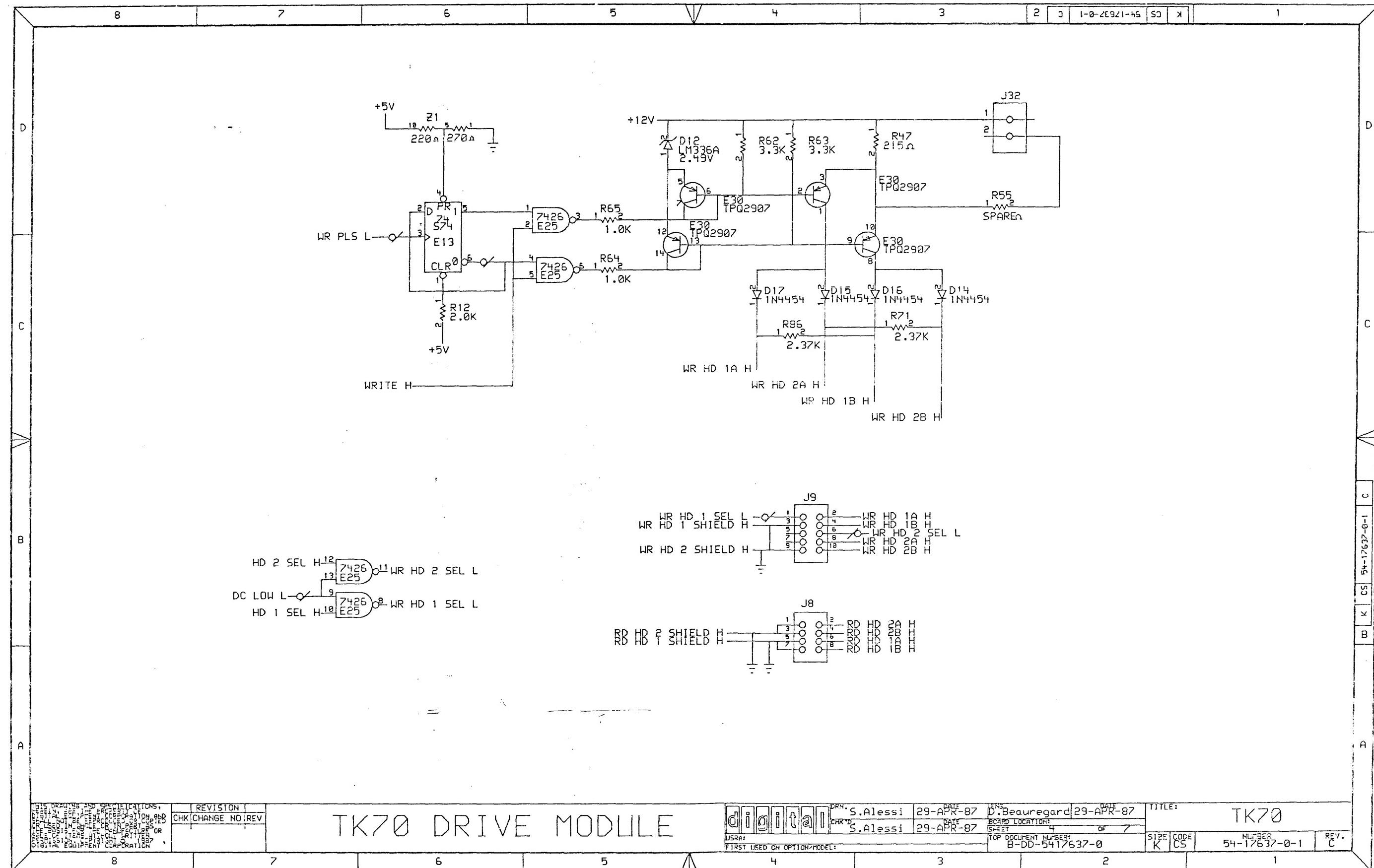
28 NOTE: QTY IS 85. ALSO USED ON J103-01,J103-03,J100-01 THRU J100-09,J100-11 THRU J100-19,J100-21,J100-22.

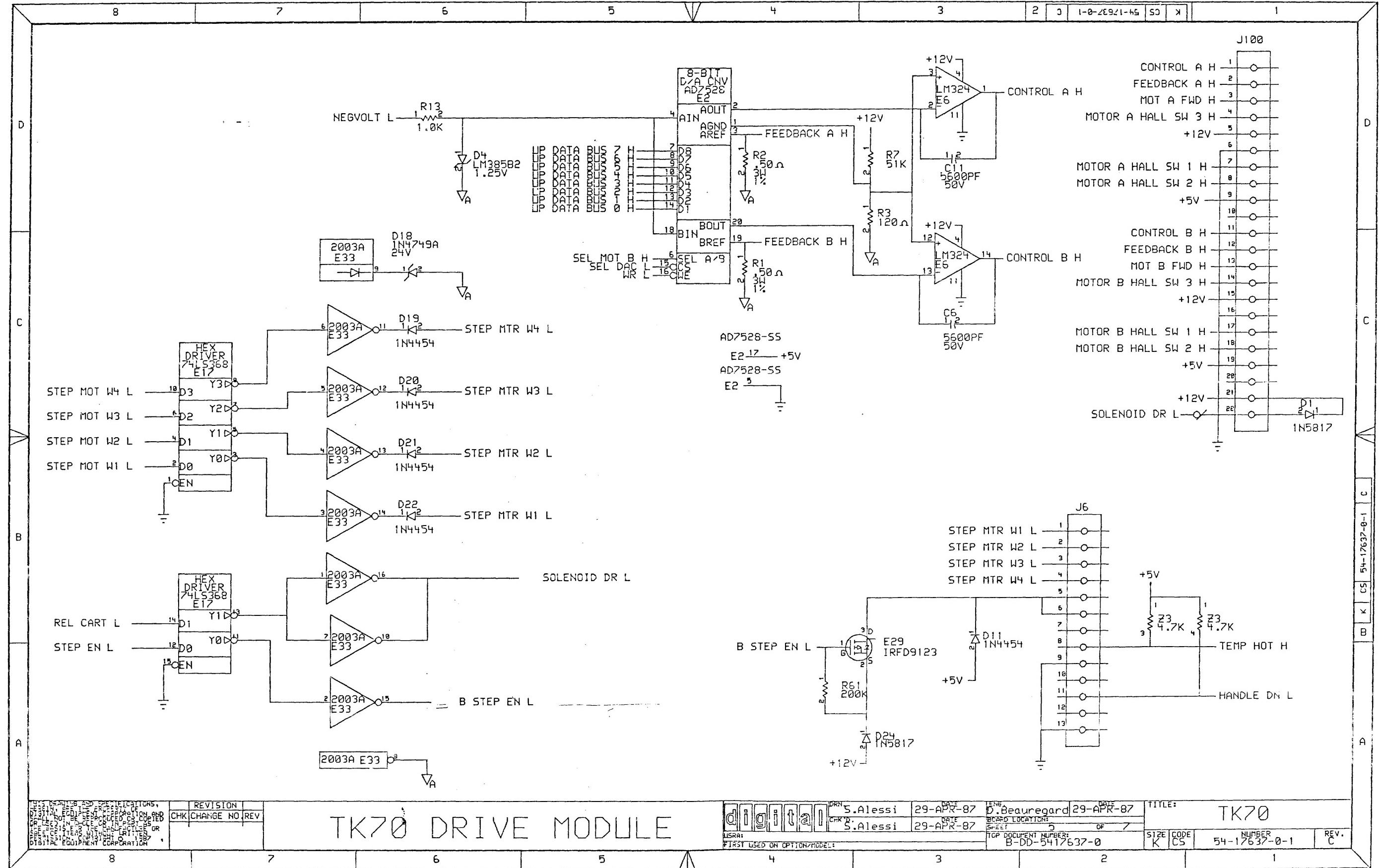
D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							TK70 DRIVE		K	PL	5417637-0-DBP	F

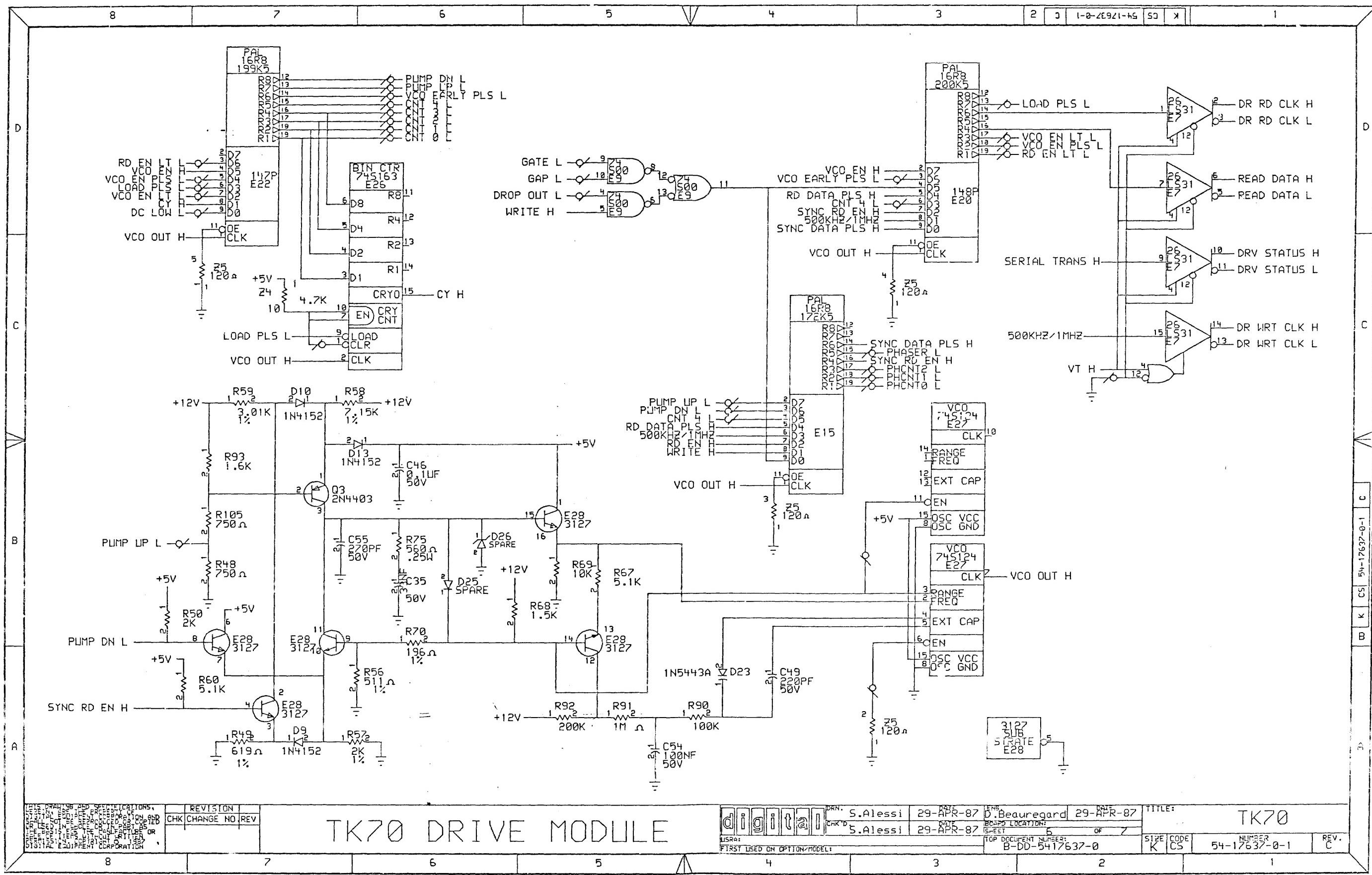


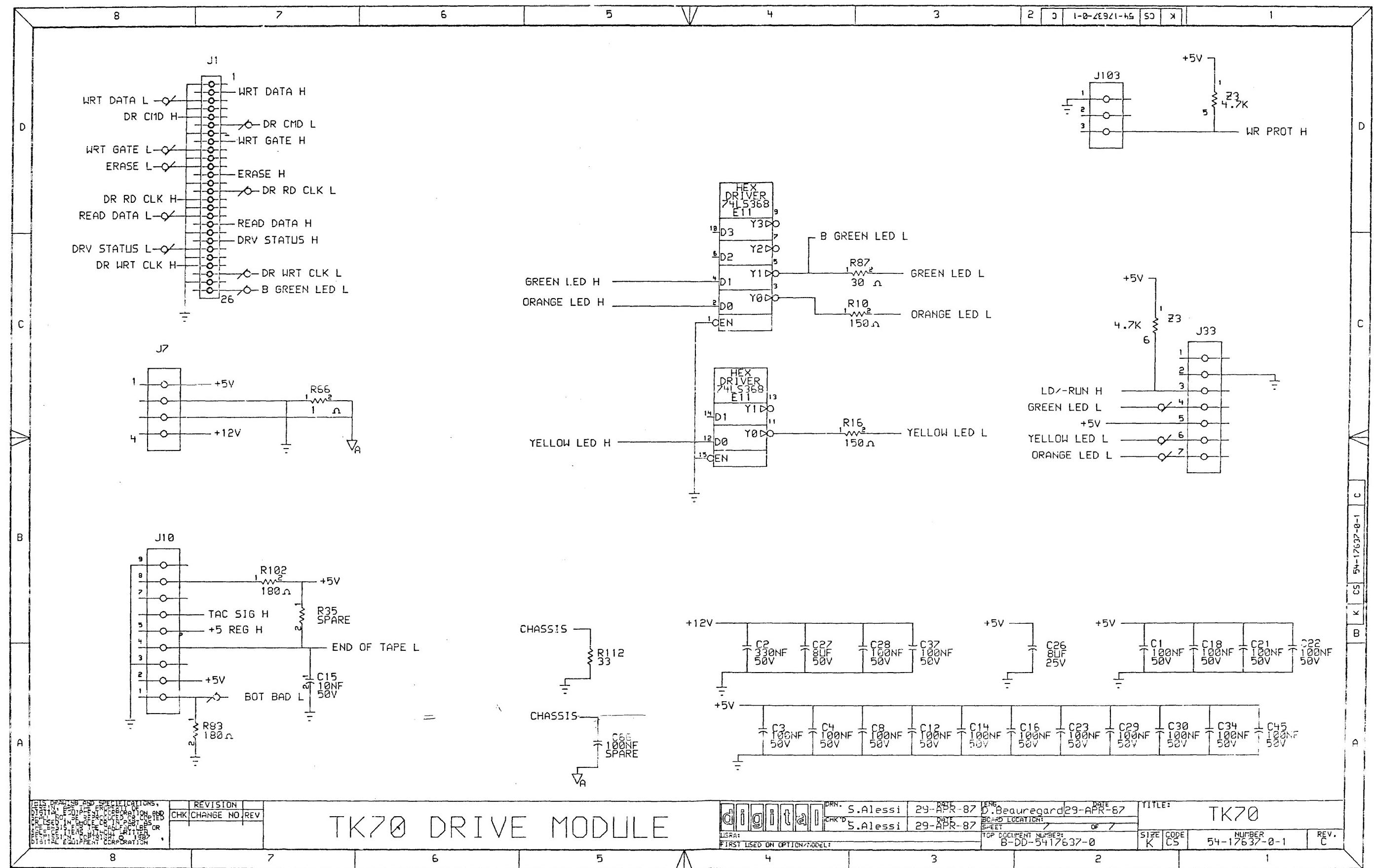












K	CODE	5418272-0-DBV	REV	C	NUMBER	DD	SIZE
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DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	A1	A2	A3	REVISIONS					
		5418272-01	PC BO. SWITCH/LED									
D-UA-5418272-0-0	1		PC BO. SWITCH/LED	A	B	INA						
K-PL-5418272-0-DBP	1		PARTS LIST (SH454A.PLS)	A	B	C						
K-CS-5418272-0-DBX	-		CIRCUIT SCHEMATIC DATA BASE	A	A	A						
K-CS-5418272-0-1	1		CIRCUIT SCHEMATIC	A	A	A						
K-PC-5418272-0-DBV	-		P. C. DESIGN DATA BASE	A	B	C						
		5018271-01	ETCH CIRCUIT BOARD	A1	A1	B1						
K-DD-5018271-0	1		DRAWING DIRECTORY	A	A	INA						
K-UA-5418272-0-0	2		PC BO. SWITCH/LED	-	-	C						
K-DD-5018271-0-DBV	1		DRAWING DIRECTORY	-	-	B						
NOTES:												

REVISION HISTORY		
DATE	ECO NO	REV
06/88	SH001	A
12/88	SH002	B

INIT A

06/88 SH001 B

12/88 SH002 C

DRN. L.BARRETT	DATE 10 JUN 87	TITLE : PC BO. SWITCH/LED		
CHKD.	DATE			
R.KOPPENAL	DATE 10 JUN 87			
DES. ENG.	DATE			
D.BEAUREGARD	DATE 10 JUN 87	DOCUMENTATION NUMBER		
RESP. ENG.	DATE	SIZE	CODE	NUMBER
A.M.HICKEY	DATE 10 JUN 87	K	DD	5418272-0-DBV
MFG. ENG.	DATE	REV.		
FRED BELLEVUE	DATE 10 JUN 87	C		
SHEET 1 OF 1				

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1987

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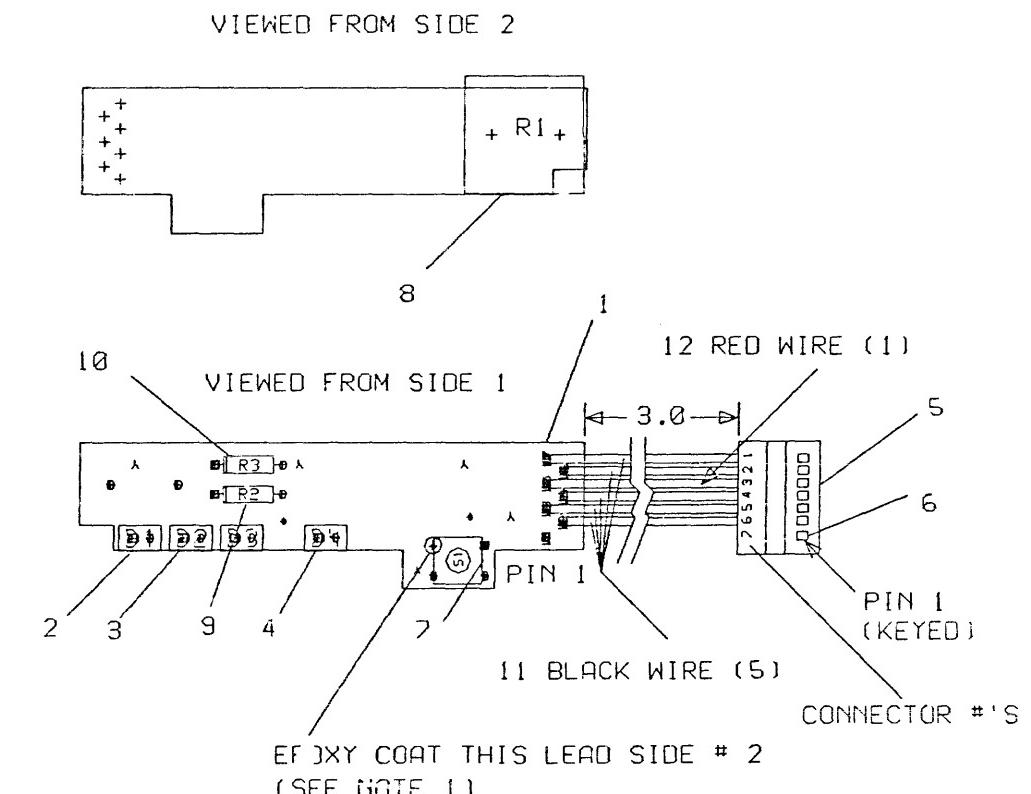
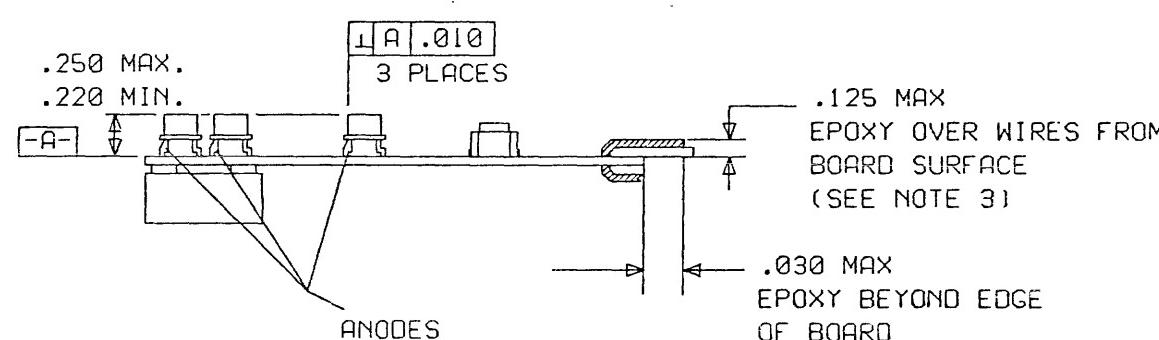
CONVERSION CHARTS

PIN ASSIGNMENT PER SCHEMATICS 54-17637-0-1	
1	KEY
2	GROUND
3	LD/RUN H
4	GREEN LED L
5	+5V
6	AMBER LED L
7	ORANGE LED L

CONNECTOR ASSIGNMENT PER UA 54-18272-0-0	
7	KEY (NO WIRE)
6	GROUND (BLACK WIRE)
5	LD/RUN/H (BLACK WIRE)
4	GREEN LED L (BLACK WIRE)
3	+5V (RED WIRE)
2	AMBER LED L (BLACK WIRE)
1	ORANGE LED L (BLACK WIRE)

NOTES:

1. COAT ONE LEAD ON SI, AS SHOWN, WITH EPOXY.
EPOXY TO BE USED - P/N 49-01755-01
2. CONNECTOR WIRES TO BE FROM SIDE 1
3. EPOXY COAT WIRES, AS SHOWN, TO CIRCUIT BOARD FOR RESTRAINING PURPOSES.
EPOXY TO BE USED - P/N 49-01755-01



CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV
RK	L. BARRETT	P. BARTON	SHEET 1	6/88	B
RK	S. EVANS	J. FLEMING	SHEET 2	9/88	C

CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV

NOTES					
1. SOLDER AND WORKMANSHIP PER DEC STD 116.					
2. A HORIZONTAL FORCE OF 3 LBS. ON THE CABLE SHALL NOT INDUCE UNDUE STRESSES IN THE SOLDER AT THE P.C. BOARD TERMINATIONS.					
3. PRIOR TO ASSEMBLY, THE SHORT LEAD ON ITEMS 2, 3 AND 4 ARE THE CATHODES.					

SIGNATURES					
DRAWN LAURIE BARRETT	DATE	19FEB87	digital		
CHECKED ROBERT KOPPENAL		12JUN87			
MECH ENG PETER BARTON		12JUN87			
PROJ ENG ANN MARIE HICKEY		12JUN87			
PROG CHRIS SHEENY		19JUN87			
SCALE 2/1					
SHEET 1 OF 2					
TOP DOC NO K-00-5418272-0-0					

SIZE	CODE	NUMBER	REV
K	UA	5418272-0-0	C

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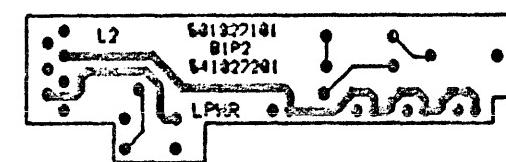
11

1

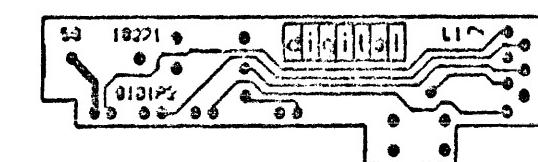
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LAYER 2
VIEWED FROM SIDE 2



LAYER 1
VIEWED FROM SIDE 1



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-62-

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- 6 -

									TITLE PC BO. SWITCH/LED	SIZE/CODE K U A	NUMBER 5418272-0-0	REV C
8	7	6	5	4	3	2	1	W/O#	SCALE 2/1	SHEET 2 OF 2		

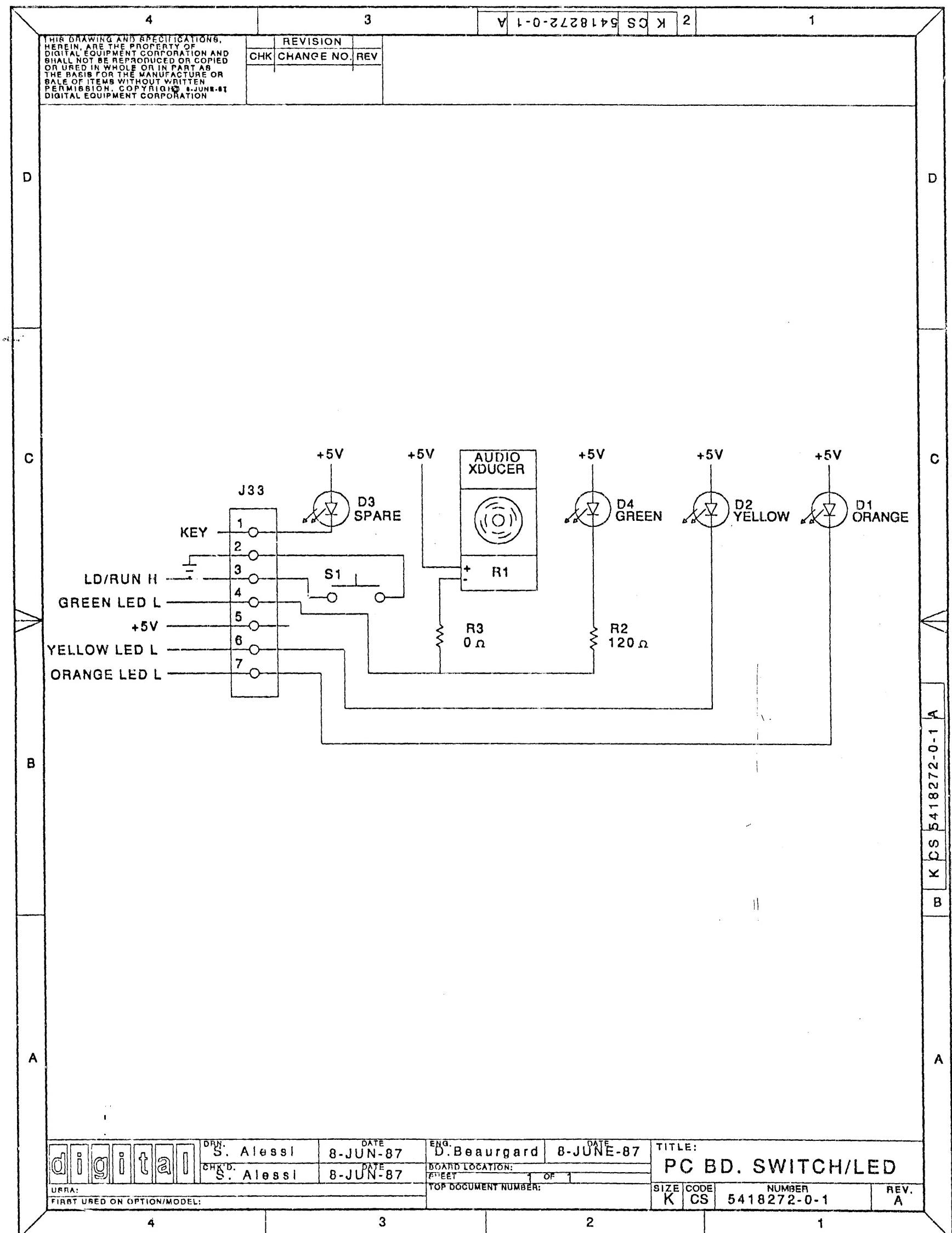
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P A R T S L I S

SHEET A1 OF A1

LINE ITEM	TOP DOCUMENT	PART NUMBER	REV	MIN DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
1	1	K-DD-5018271-0-DBV	50-18271-01	DRILL AND ETCH	1	
2	2		11-28095-01	LED ORANGE T1 3MOD	1	D1
3	3		11-28095-02	LED YELLOW T1 3MCD	1	D2
4	4		11-28095-03	LED GREEN T1 4MCD	1	D4
5	5		12-18296-18	CONN, IDC 07POS(1X07).100CC GOL	1	
6	6		12-19389-01	KEYING PLUG	1	
7	7		12-27031-01	SW,PB SPST MOM 50M	1	S1
8	8		12-28033-01	TRANSDUCER,MINI,PIEZo-CER,PC MNT	1	R1
9	9		13-00247-00	120.0 .25 W 5.0 % CF	1	R2
10	10		90-09185-00	JUMPER, WIRE, INSULATED, BLACK B	1	R3
11	11		91-07854-00	WIRE, 26AWG(7/34)IPVC	5	
12	12		91-07854-22	WIRE, 26AWG(7/34)IPVC	1	
13	13		49-01755-01	ADHESIVE,CURING FOR STRAIN RELIE	A/R	

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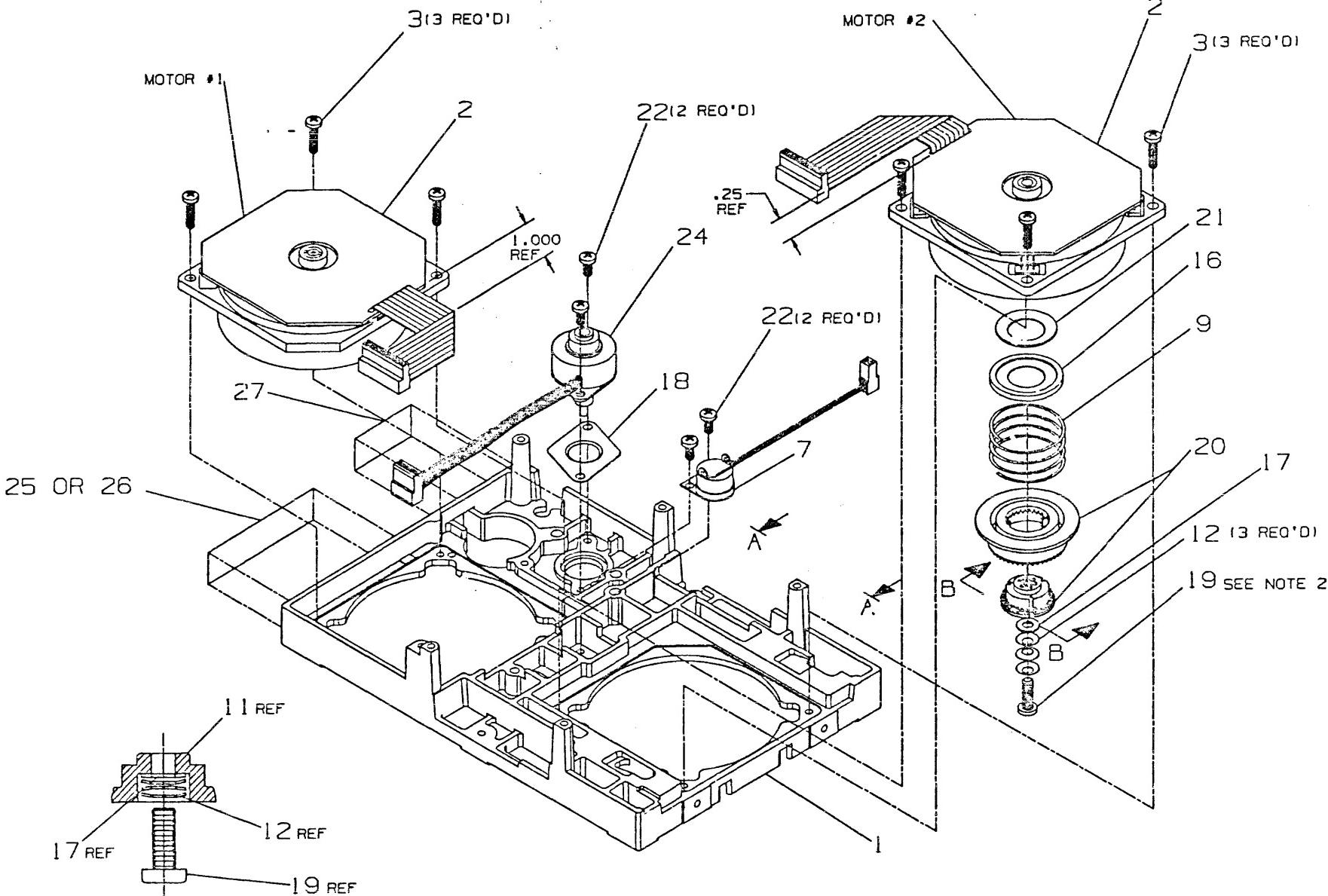
SHR

4		3		D	A	I	7021736-0-D6U	K	2
LEGEND				NOTES:					
PART NO.	REV.	VARIATION							
7021736-01	D5	TK50							
7021736-02	D5	TK70							

1. DATUM - A - IS DEFINED BY 3 TOOLS
ALM 12 AND 12 AC SHOWN ON DRAWING

NOTES:

1. DATUM -A- IS DEFINED BY 3 TOOLING POINTS A1, A2 AND A3 AS SHOWN ON DRAWING D-MD-7427667-0-DBU, BASEPLATE MACHINED DWG.
 2. TORQUE SCREW (ITEM 19) TO 10 ± 2 INCH POUNDS.
 3. DATUM -D- DEFINED BY TOP OF .0469 DIAMETER PINS.
 4. DIMENSION TO BE ACHIEVED BY USE OF ITEM 21 AS REQUIRED.



CAUTION
OFF SHEET PARTS LIST EXISTS
SEE K-PL-7021736-0-DAP

	DESCRIPTION	DRAWING NO.	PART NO.						
			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)						
FIRST HIGHER ASSY E-UA-TK50-0-DBU	QUANTITY & VARIATION	INCHES TOLERANCES	ANGLES +10° -30°	APPLICABLE DIMENSION RANGE	DIMENSION RANGE IN INCHES				
		.X± .01 .XX± .02 .XXX± .005	SURFACE QUALITY 	IDEAL ONE	OVER .01 TO .02 TO .03 TO .04	OVER .02 TO .03 TO .04 TO .05	OVER .03 TO .04 TO .05 TO .06	OVER .04 TO .05 TO .06 TO .07	
				<input type="checkbox"/>	.004	.008	.012	.016	
				<input type="checkbox"/>					
						TITLE	DIGITAL		
						MOTOR AND BASEPLATE ASSEMBLY			
						DOCUMENT NUMBER			
						SIZE	CODE	NUMBER	REV.
						D	AD	7021736-0-DBU	K
						SCALE 1/1		SHEET 1 OF 2	
						TOP DOC.			
						D-AD-7021736-0-DBU			
						FINISH NONE			
						REMOVE BURRS AND BREAK SHARP CORNERS			
						MATERIAL SEE PARTS LIST			
						DO NOT SCALE DRAWING			

REVISIONS	C.H.	CHANGE NO.	REV.
		INITIAL	A
		T150-SH008	B
	C.W.FIELDS	0-5-95	
	G.SCHNEIDER		
	7021736-SH001	C	
	C.W.FIELDS	10-7-95	
	G.SCHNEIDER		
	7021736-SH002	D	
	C.W.FIELDS	11-23-95	
	G.SCHNEIDER		
	T150-SH009	E	
	C.W.FIELDS	6-17-96	
	G.SCHNEIDER		
	7021736-SH003	F	
	C.W.FIELDS	12-2-96	
	E.WESTER		
	7021736-SH004	H	
	C.W.FIELDS	5-7-97	
	E.WESTER		
	7021736-SH005	J	
	C.W.FIELDS	8-11-97	
	E.WESTER		
	7021736-SH006	K	
	C.W.FIELDS	5-2-98	
	E.WESTER		

8	7	6	5	▼	4	3	2	1				
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<small>D REV MAY 1985 7021736-0-DBU X</small>								<small>D REV MAY 1985 7021736-0-DBU X</small>				
<small>C</small>								<small>C</small>				
<small>B</small>								<small>B</small>				
<small>A</small>								<small>A</small>				
<small>REVISIONS</small>									<small>TITLE MOTOR AND BASEPLATE ASSY SCALE 1/1 SHEET 2 OF 2 DIST</small>		<small>SIZE CODE D NUMBER AD 7021736-0-DBU REV K</small>	
<small>CHK</small>	<small>CHANGE NO</small>	<small>REV</small>										
<small>SEE SHEET 1</small>												

AUTOMATED BY VAXKPL (V1.3)

P A R T S L I S

SHEET A1 OF A1

LINE ITEM	TOP DOCUMENT	PART NUMBER	REV	DESCRIPTION	QUANTITY PER VARIATION/REVISION	
					01	02
					D5	D5
1	1 D-IA-7021732-0-DBU	70-21732-01		BASEPLATE ASSY	1	1
2	2 A-PS-1222681-0-DBU	12-22681-01		MOTOR, BRUSHLESS, DC	2	2
3	3 A-PS-9010089-0-DBU	90-10089-03		SCREW, THD RL, PAN PHIL F/METAL	6	6
4	5 A-PS-1221497-0-DBU	12-21497-01		*** THIS ITEM IS NOT USED ***	-	-
5	6 A-PS-9009905-0-DBU	90-09905-01		*** THIS ITEM IS NOT USED ***	-	-
6	7 A-PS-1222958-0-DBU	12-22958-02		THERMAL SW, 0@145, A	1	1
7	9 A-PS-1222356-0-DBU	12-22356-01		SPRING, COMPRESSION 1.14 ODX .500LG	1	1
8	12 A-PS-9010506-0-DBU	90-10506-01		WASHER, SPRING BELLEVILLE STEEL .	3	3
9	14 A-PS-3619833-0-DBU	36-19833-03		*** THIS ITEM IS NOT USED ***	-	-
10	16 C-MD-7431657-0-DBU	74-31657-01		PLATE, DRIVER SPRING SUPPORT	1	1
11	17 A-PS-1224692-0-DBU	12-24692-02		WASHER, FLAT	1	1
12	18 B-MD-7429607-0-DBU	74-29607-02		SHIELD ACTUATOR	1	1
13	19 A-PS-9006039-0-0	90-06039-01		SCREW, MACH PAN PHIL 8-32	1	1
14	20 D=AD-7023477-0-DBU	70-23477-01		REEL DRIVER ASSY	1	1
15	21 A-PS-1224328-0-0	12-24328-01		SHIM, PLASTIC RED .002THKX	A/R	A/R
16	22 A-PS-9010717-0-0	90-10717-01		SCREW, MACH PAN PHIL 6-32	4	4
17	23	36-22059-10		*** THIS ITEM IS NOT USED ***	-	-
18	24 A-PS-1221497-0-DBU	12-21497-02		ACTUATOR, LINEAR	1	1
19	25	36-28698-01		LABEL, BAR CODE, TK50 UR/CSA	1	-
20	26	36-28698-02		LABEL, BAR CODE, TK70 UR/CSA	-	1
21	27	36-28699-01		LABEL, BAR CODE POLYESTER	1	1

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A	B	C	D	E	F	G	H	I
REVISIONS	CHANGE NO.	REV.						
DX	INITIAL	C						
	TKEO-SH002	B						
	C. W. FIELDS	6/28/86						
	G. SCHNEIDER							
	TKEO-SH007	D						
	C. W. FIELDS	4-2-86						
	G. SCHNEIDER							

SECTION A-A

SECTION B-B

SECTION C-C

SECTION D-D

SECTION E-E

SECTION F-F

SECTION G-G

SECTION H-H

SECTION I-I

SECTION J-J

SECTION K-K

SECTION L-L

SECTION M-M

SECTION N-N

SECTION O-O

SECTION P-P

SECTION Q-Q

SECTION R-R

SECTION S-S

SECTION T-T

SECTION U-U

SECTION V-V

SECTION W-W

SECTION X-X

SECTION Y-Y

SECTION Z-Z

SECTION AA-AA

SECTION BB-BB

SECTION CC-CC

SECTION DD-DD

SECTION EE-EE

SECTION FF-FF

SECTION GG-GG

SECTION HH-HH

SECTION II-II

SECTION JJ-JJ

SECTION KK-KK

SECTION LL-LL

SECTION MM-MM

SECTION NN-NN

SECTION OO-OO

SECTION PP-PP

SECTION QQ-QQ

SECTION RR-RR

SECTION SS-SS

SECTION TT-TT

SECTION UU-UU

SECTION VV-VV

SECTION WW-WW

SECTION XX-XX

SECTION YY-YY

SECTION ZZ-ZZ

SECTION AA-AA

SECTION BB-BB

SECTION CC-CC

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SECTION QQ-QQ

SECTION RR-RR

SECTION SS-SS

SECTION TT-TT

SECTION UU-UU

SECTION VV-VV

SECTION WW-WW

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SECTION AA-AA

SECTION BB-BB

SECTION CC-CC

SECTION DD-DD

SECTION EE-EE

SECTION FF-FF

SECTION GG-GG

SECTION HH-HH

SECTION II-II

SECTION JJ-JJ

SECTION KK-KK

SECTION LL-LL

SECTION MM-MM

SECTION NN-NN

<img alt="Technical drawing showing a cross-sectional view of the baseplate assembly. It includes dimensions 1.60 ±.01,

LINE ITEM	TOP DOCUMENT	PART NUMBER REV	DESCRIPTION	MIN VARIATION REVISION LEVEL:		QTY PER VARIATION
				01	N/A	
1	1	D-MD-7427667-0-DBU	7427667-03	BASE PLATE	1	
2	2	B-MD-7429210-0-DBU	7429210-01	PIN, DRIVER LINK	1	
3	3	C-MD-7429209-0-DBU	7429209-01	SHAFT, PULLEY	1	
4	4	B-MD-7429388-0-DBU	7429388-01	POST, HEAD GUIDE	2	
5	5	A-PS-3619833-0-0	3619833-02	*** THIS ITEM IS NOT USED ***	-	

REVISION HISTORY			BASIC PART NO: 7021732		DRN:	R. PUDELKO	DATE: 24-FEB-84	D	I	G	I	T	A	L
ENG!	ECO NUMBER	!REV	SECTION A	OF A										
					CHK'D:	E. WESTER	DATE: 18-MAR-85		TITLE		PARTS LIST			
---	INITIAL	A	SECTION.	VARIATION INDEX								BASEPLATE ASSY		
GS	TK50-SH002	B		[A]01										
GS	7021736-SH001	C		[B]		DES.ENG:	E. WESTER	DATE: 18-MAR-85		DOCUMENT NUMBER				
				[C]						SIZE	CODE	NUMBER	! REV	
				[D]		RESP.ENG.:	G. SCHNEIDER	DATE: 18-MAR-85	K	PL	7021732-0-DBP		C	
				[E]		MFG.ENG.:	K. CRANSON	DATE: 18-MAR-85				RELEASE DATE:	07-OCT-85	
				[F]		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:				FILE NAME:		EDIT #
						D-IA-7021732-0-DBU		D-IA-7021732-0-DBU				Z8715C.PLS		14

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8 7 6 5 4 3 2 1

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LEGEND		
PART NO.	REV	VARIATION
7023477-01	A1	AS SHOWN

NOTES:

1. ASSEMBLY SHALL BE PACKAGED SO ITEM 1 AND ITEM 2 REMAIN ASSEMBLED.
2. DIMENSIONS TO BE CHECKED WHILE MOUNTED ON DEC GAGE #9400827-3
3. GAGE BORE WILL BE ADJUSTABLE THROUGH TOTAL PART TOLERANCE. RUNOUT OF .0002 T.I.R. WILL BE MAINTAINED THROUGHOUT TOTAL BORE ADJUSTMENT.
4. 75% OF THE TEETH ON ITEM 1 SHALL SHOW CONTACT WITH THE TEETH ON ITEM 2 AFTER BEING PRESSED TOGETHER WITH LESS THAN 10.0 LB.

SECTION A-A

DETAIL B
THREE ACCEPTABLE CORNER RELIEF METHODS
SCALE: 10/1

CAUTION
OFF SHEET PARTS LIST EXISTS
SEE K-PL-7023477-0-DBP

DESCRIPTION		DRAWING NO.	PART NO.	ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 1141)					
TOLERANCES	ANGLE 10°-30°	APPLICABLE DIMENSION RANGE	DIMENSION RANGE IN INCHES		
			OVER 10°	OVER 10°	OVER 10°
		0.02	0.03	0.05	0.10
		0.004	0.008	0.012	0.024

FIRST NAMED ASSY
D-AD-7021736-0-DBU

REVISIONS	CHAVIER NO.	REV.
INITIAL	A	B
C.W. FIELDS	2-9-B7	
E. WESTER		

REEL DRIVER ASSY

THIRD ANGLE PROJECTION	ON R. PUDELKO	DATE 29 JAN 86	TITLE digital
DO NOT SCALE DRAWING	ON E. WESTER	DATE 4 FEB 86	
REMOVE BURRS AND BREAK SHARP CORNERS	K. CRANSON	DATE 29 JAN 86	
MATERIAL SEE PARTS LIST	G. SCHNEIDER	DATE 4 FEB 86	
FINISH	W. HARRIS	DATE 4 FEB 86	
DOCUMENT NUMBER			
D-AD-7023477-0-DBU B			
SCALE	2/1	Sheet	1 of 1

AUTOMATED BY VAXKPL (V1.3)

PARTS LIST

SHEET A1 OF A1

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	01 A1	QUANTITY PER VARIATION/REVISION
1	1 D-MD-7427688-0-DBU	74-27688-01		DRIVER, REEL	1	
2	2			*** THIS ITEM IS NOT USED ***	-	
3	3 D-MD-7427691-0-DBU	74-27691-02		DRIVER, HUB, (MACHINED)	1	

REVISION HISTORY			KPL MATRIX FORMAT	SECTION A OF A	DRN: R. PUDELKO	D I G I T A L
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 29-JAN-86	TITLE PARTS LIST
EW	7023477-SH001	A	[A]	01	CHK'D: E. WESTER	REEL DRIVER ASSY
		B	[B]		DATE: 29-JAN-86	
			[C]		DES. ENG: K. CRANSON	DOCUMENT NUMBER
			[D]		DATE: 29-JAN-86	SIZE CODE NUMBER REV
			[E]		RESP. ENG.: G. SCHNIEDER	K PL 7023477-0-DBP B
			[F]		DATE: 04-FEB-86	
			[H]		MFG. ENG: W. HARRIS	RELEASE DATE: 10-FEB-87
			[J]		DATE: 04-FEB-86	RELEASE STATUS: RELEASED
			BASIC PART NUMBER: 7023477		ASSEMBLY NUMBER: D-AD-7023477-0-DBU	TOP DOCUMENT NUMBER: D-AD-7023477-0-DBU FILE NAME: SH270B.PLS EDIT # 1

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8	7	6	5	▼	4	3	2	1																																																																																																															
					D-AD-7023497-0-DBU C																																																																																																																		
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					NOTES: <ol style="list-style-type: none"> 1. TOTAL WARP OF SPRING WHEN INSTALLED TO BE APPROX. 45°. 2. INSTALLED SPRING TO BE WOUND APPROXIMATELY 30° FROM FREE STATE. 																																																																																																																		
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FIRST READER ASS'T		DESCRIPTION		DRAWING NO.	PART NO.	ITEM ID.																																																																																																																	
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AUTOMATED BY VAXKPL (V2.1-2)

OWNER: SHR

P A R T S L I S T

SHEET A1 OF A1

1 OF A1

PAGE 1 OF

LINEITE

TOP DOCUMENT

PART NUMBER REV

DESCRIPTION

01
A01 B

2
1

1	1	E-MD-7432530-0-DBU	74-32530-02	RECEIVER
2	2	C-MD-7429212-0-DBU	74-29212-01	FLOOR, RECEIVER
3	3	B-MD-7429216-0-DBU	74-29216-01	SHAFT, PIVOT LINK
4	4	D-MD-7429211-0-DBU	74-29211-01	PLATE, CLUTCH
5	5	D-MD-7429213-0-DBU	74-29213-01	LINK, CLUTCH, RIGHT
6	6	D-MD-7429214-0-DBU	74-29214-01	LINK, CLUTCH, LEFT
7	7	D-IA-7024656-0-DBU	70-24656-01	HANDLE, ENGAGING ASSY
8	8		12-22089-01	SOLENOID, 10.5VDC. TUBULAR INTERMITTENT
9	9	C-AD-7021738-0-DBU	70-21738-01	INTERPOSER ASSY.
10	10		12-22538-01	SPRING, TORSION
11	11		90-10500-01	SCREW, THRL 2-56 PAN .375 XRC
12	12		12-25332-02	SW, ASSY SPDT NO-SNAP ACTING
13	13			*** THIS ITEM IS NOT USED ***
14	14	D-MD-7434496-0-DBU	74-34496-01	LINK, BUCKLING
15	15	A-PS-1223742-0-DBU	12-23742-01	SPRING, TORSION .020DIA WIRE
16	16	A-PS-3628840-0-0	36-28840-01	LABEL, HANDLE TK70
17	17	D-IA-7024656-0-DBU	70-24656-02	HANDLE ENGAGING ASSY LONG SHAFT
18	18		74-39328-01 A	DOOR, RECEIVER
19	19		12-31677-01 B	SPRING, EXTENSION 0.2000D

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4

3

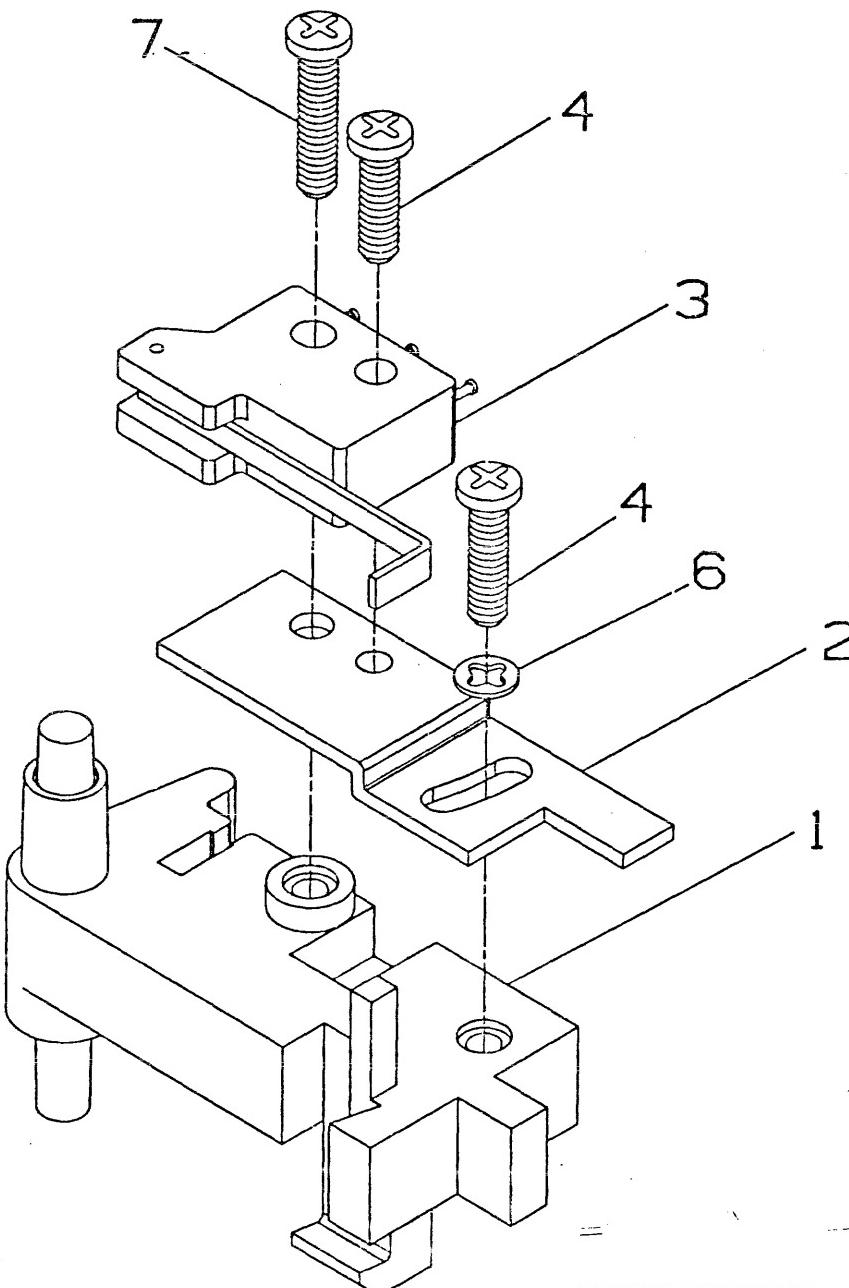
2

1

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LEGEND

PART NO.	REV	VARIATION
7021738-01	B2	AS SHOWN



CAUTION

OFF SHEET PARTS LIST EXISTS
SEE K-PL-7021738-0-DBP

REVISIONS		CHANGE NO.	REV.
INITIAL	A		
7021738-SH001	B		
W.FIELDS 10-6-85	E. WESTER		
7021738-SH002	C		
W.FIELDS 6-26-87	E. WESTER		

FIRST HIGHER ASS'Y
D-AD-7021085-0-DBU

THIRD ANGLE PROJECTION
DO NOT SCALE DRAWING
REMOVE BURRS AND BREAK SHARP CORNERS
MATERIAL SEE PARTS LIST
FINISH

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)			
INCHES TOLERANCES	ANGLES ±0° 30'	APPLICABLE DIMENSION RANGE	DIMENSION RANGE IN INCHES
.+X: ± .1 .XX: ± .02 .XXX: ± .005	SURFACE QUALITY 	1 CHECK ONE	OVER 0 TO 0.2 OVER 0.2 TO 1.2 OVER 1.2 TO 4.0 OVER 4.0 TO 12.0 OVER 12.0 TO 40.0 OVER 40.0 TO 60.0
		<input type="checkbox"/>	+.02 +.03 +.05 +.10
		<input type="checkbox"/>	+.004 .008 .012 .016 .024 .04
		<input type="checkbox"/>	

TITLE
INTERPOSER,
ASSEMBLY

DOCUMENT NUMBER
SIZE CODE NUMBER REV.
C AD 7021738-0-DBU C

SCALE 4/1 SHEET 1 OF 1

AUTOMATED BY VAXKPL (V1.3)

PARTS LIST

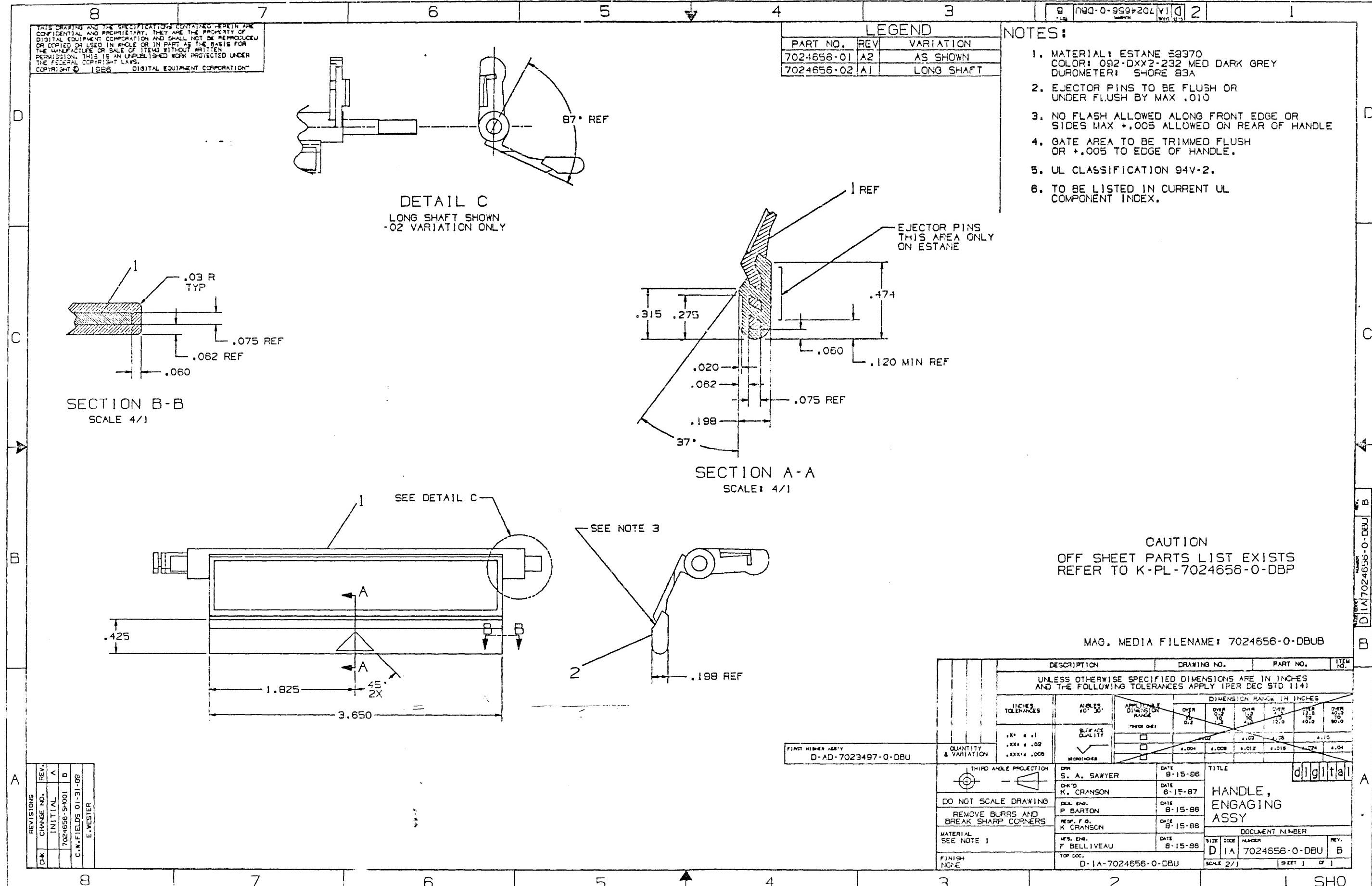
SHEET A1 OF A1

QUANTITY PER VARIATION/REVISION

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	01	B2
1	1 E-ME-7429215-0-DBU	74-29215-01		INTERPOSER	1	
2	2 C-MD-7429218-0-DBU	74-29218-01		MOUNT,SWITCH	1	
3	3	12-22274-04		SW,MICRO 1PDT NO 5A28	1	
4	4	90-10500-01		SCREW,THD RL,PAN PHIL CS/ZNC #	2	
5	5			*** THIS ITEM IS NOT USED ***	-	
6	6	90-06631-00		WASHER,LOCK INTERNAL STEEL	1	
7	7	90-08025-01		SCREW,MACH PAN PHIL 2-56	1	

REVISION HISTORY			KPL MATRIX FORMAT	SECTION A OF A	DRN: C.W.FIELDS	D I G I T A L				
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 16-MAR-85	TITLE PARTS LIST				
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EW	7021738-SH001	B	[B]		DATE: 16-MAR-85					
EW	7021738-SH002	C	[C]		DES.ENG: E.WESTER					
			[D]		DATE: 16-MAR-85					
			[E]		RESP.ENG.: G.SCHNEIDER					
			[F]		DATE: 16-MAR-85					
			[H]		MFG.ENG: W.HARRIS					
			[J]		DATE: 16-MAR-85					
			BASIC PART NUMBER:		ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #		
			7021738		C-AD-7021738-0-DBU	C-AD-7021738-0-DBU	Z8721C.PLS	2		

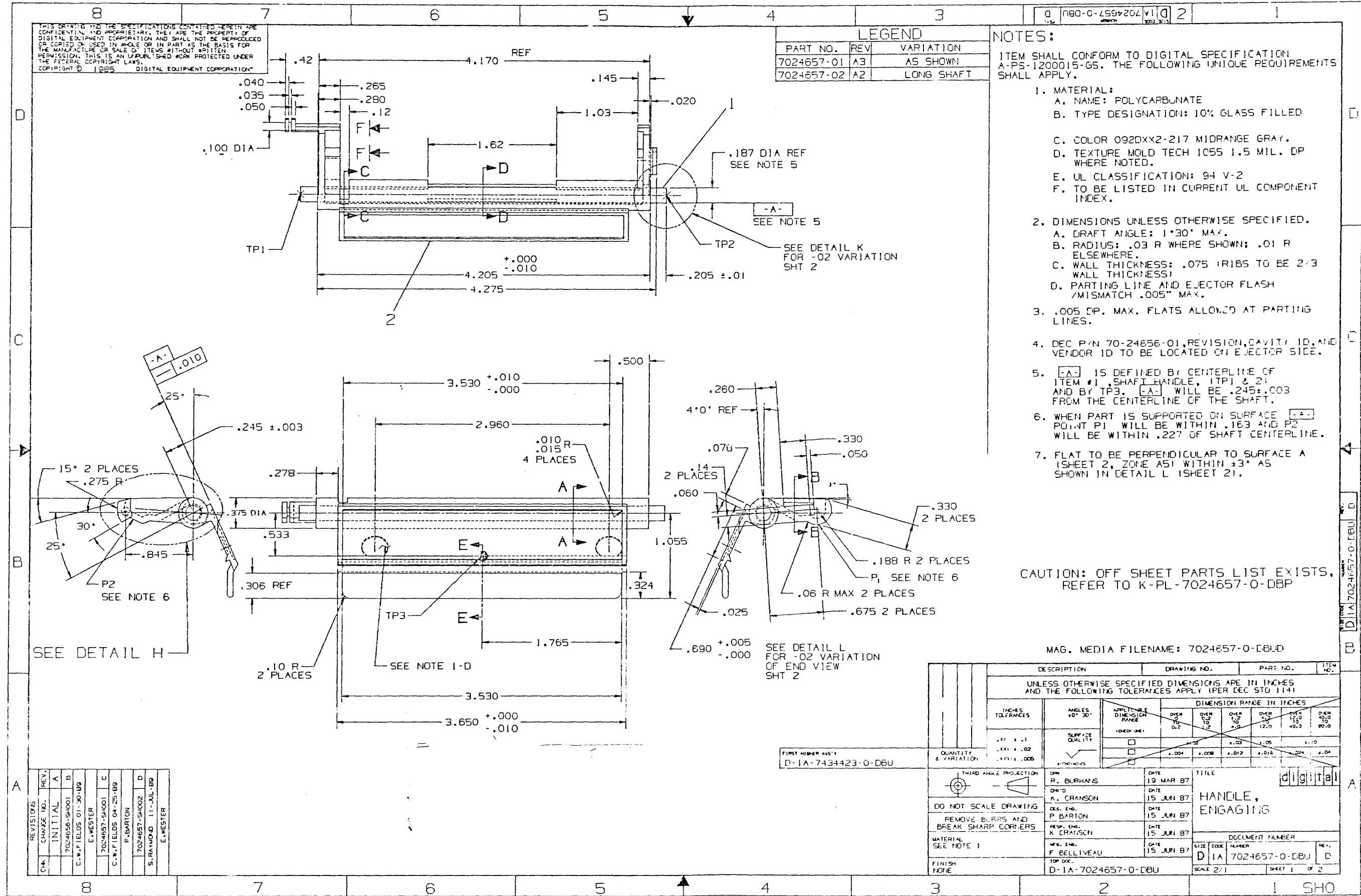
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LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	01	02	QUANTITY PER VARIATION/REVISION
					A2	A1	
1	3 D-IA-7024657-0-DBU	70-24657-01		HANDLE ENGAGING	1	-	
2	4 A-PS-1200015-GS	12-00015-GS		GENERAL SPEC FOR RIGID PLASTIC PAR	A/R	A/R	
3	5 D-IA-7024657-0-DBU	70-24657-02		HANDLE ENGAGING LONG SHAFT	-	1	

REVISION HISTORY			KPL MATRIX FORMAT		SECTION A OF A	DRN: R BURHANS	D I G I T A L				
ENG!	ECO NUMBER	REV	SECTION/VARIATION INDEX		CHK'D:	K. CRANSON	TITLE PARTS LIST				
---	INITIAL	A	[A] 01,02		DATE:	16-FEB-87	HANDLE, ENGAGING				
EW	7024656-SH001	B	[B]		DATE:	26-AUG-87	ASSY				
			[C]		DES.ENG:	P. BARTON	DOCUMENT NUMBER				
			[D]		DATE:	26-AUG-87	SIZE	CODE	NUMBER	REV	
			[E]								
			[F]		RESP.ENG.:	K. CRANSON					
			[G]		DATE:	26-AUG-87	K	PL	7024656-0-DBP	B	
			[H]								
			[I]		MFG.ENG:	F BELLIVEAU	RELEASE DATE: 01-FEB-89				
			[J]		DATE:	21-FEB-87	RELEASE STATUS: RELEASED				
			BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		EDIT #		
			7024656		D-IA-7024656-0-DBU		D-IA-7024656-0-DBU		2		
			FILE NAME: SH456B.PLS								

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SECTION A-A

SECTION B-B
SCALE 8/1

SECTION C-C
SCALE 4/1

SECTION D-D

SECTION E-E
SCALE 4/1

SECTION F-F

SECTION G-G

SECTION H-H

SECTION I-I

SECTION J-J
SCALE 4/1

SECTION K-K

SECTION L-L
* = FOR -02 VARIATION ONLY

INSPECTION INFORMATION

REVISIONS		
CHK	CHANGE NO	REV
SEE SHEET 1		

TITLE HANDLE, ENGAGING
SIZE/CODE DIA NUMBER 7024657-0-DBU REV D
SCALE 2/1 SHEET 2 OF 2 DIST

REVISIONS	
CHK	CHANGE NO
	SEE SHEET 1

AUTOMATED BY VAXKPL (V2.1-3)

OWNER: SHR
ART NUMBER REV MIN

P A R T S L I S

SHEET A1 OF A1 PAGE 10
QUANTITY PER VARIATION/REVISION
01 02
A03 A02

1	1	B-MD-7434433-0-DBU	74-34433-01	HANDLE,SHAFT	1	
2	2	A-PS-1200015-GS	12-00015-GS	GENERAL SPEC FOR RIGID PLASTIC PAR	A/R	A/
3	3	B-MD-7434433-0-DBU	74-34433-02	HANDLE,SHAFT, LONG SHAFT	-	-

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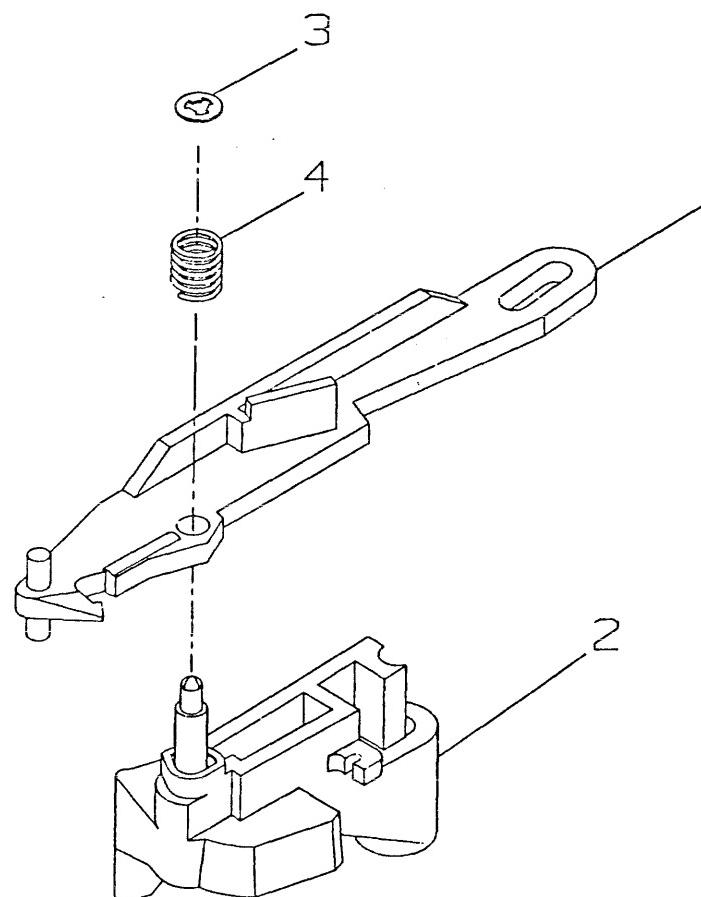
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LEGEND

PART NO.	REV.	VARIATION
7023544-01	A1	AS SHOWN



CAUTION
OFF SHEET PARTS LIST EXISTS
SEE K-PL-7023544-0-DBP

REVISIONS	
%	CHANGE NO.
INITIAL	REV. A
7023544-SH001	B
ION HAYNES 4/24/87	
EDWIN WESTER	

FIRST HIGHER ASS'Y
E-UA-TK50-0-DBU

THIRD ANGLE PROJECTION
DO NOT SCALE DRAWING
REMOVE BURRS AND
BREAK SHARP CORNERS
MATERIAL
SEE PARTS LIST
FINISH NONE

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)			
INCHES TOLERANCES	ANGLES ±0° 30°	APPLICABLE DIMENSION RANGE	DIMENSION RANGE IN INCHES
.X: ± .1 .XX: ± .02 .XXX: ± .005	(CHECK ONE) <input type="checkbox"/> <input checked="" type="checkbox"/> SURFACE QUALITY <input type="checkbox"/> <input type="checkbox"/> MICROINCHES	OVER 0 TO 0.2 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	OVER 0 TO 0.2 STEP 0.2 TO 1.2 OVER 1.2 TO 4.0 OVER 4.0 TO 12.0 OVER 12.0 TO 40.0 OVER 40.0 TO 60.0
			±.02 ±.03 ±.05 ±.10
			±.004 ±.008 ±.012 ±.018 ±.024 ±.04
TOP DOC. C-AD-7023544-0-DBU		TITLE digital LEADER LATCH ASSY	
DOCUMENT NUMBER		SIZE CODE NUMBER REV.	
C AD 7023544-0-DBU		B	

NUMBER C AD 7023544-0-DBU B

SIZE CODE

NUMBER

C

AD

7023544-0-DBU

B

REV.

B

AUTOMATED BY VAXKPL (V1.3)

P A R T S L I S T

SHEET A1 OF A1

QUANTITY PER VARIATION/REVISION

LINE ITEM	TOP DOCUMENT	PART NUMBER	REV	DESCRIPTION
1	1 D-MD-7434495-0-DBU	74-34495-01		ARM, BUCKLING
2	2 D-MD-7432418-0-DBU	74-32418-01		LINK, DRIVER
3	3	12-21021-03		RING, RETAINER INTERNAL FOR .094SH
4	4	12-19950-02		SPRING, COMPRESSION .1750D

REVISION HISTORY			KPL MATRIX FORMAT	SECTION A OF A	DRN: R. PUDELKO	D I G I T A L			
ENG!	ECO NUMBER	REV	SECTION/VARIATION INDEX			DATE: 25-AUG-86			
---	INITIAL	A	[A]	01	CHK'D: E. WESTER	TITLE	PARTS LIST		
EW	7023544-SH001	B	[B]		DATE: 10-OCT-86	LEADER LATCH			
			[C]		DES.ENG: E. WESTER	ASSY			
			[D]		DATE: 10-OCT-86	DOCUMENT NUMBER			
			[E]		RESP.ENG.: E. WESTER	SIZE	CODE	NUMBER	REV
			[F]		DATE: 10-OCT-86	K	PL	7023544-0-DBP	B
			[H]		MFG.ENG: A. SNELL	RELEASE DATE: 26-APR-87			
			[J]		DATE: 11-NOV-86	RELEASE STATUS: RELEASED			
			BASIC PART NUMBER:	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #		
			7023544	C-AD-7023544-0-DBU	C-AD-7023544-0-DBU	SH397B.PLS	1		

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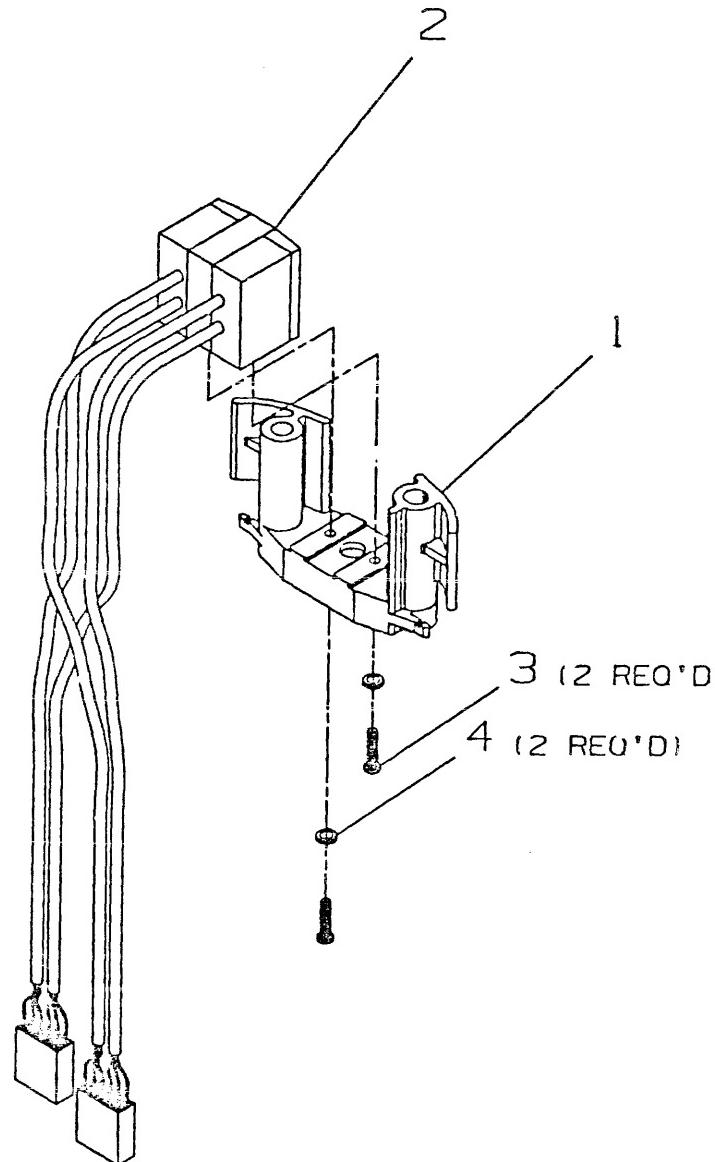
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LEGEND

PART NO.	REV	VARIATION
7023482-01	A1	AS SHOWN

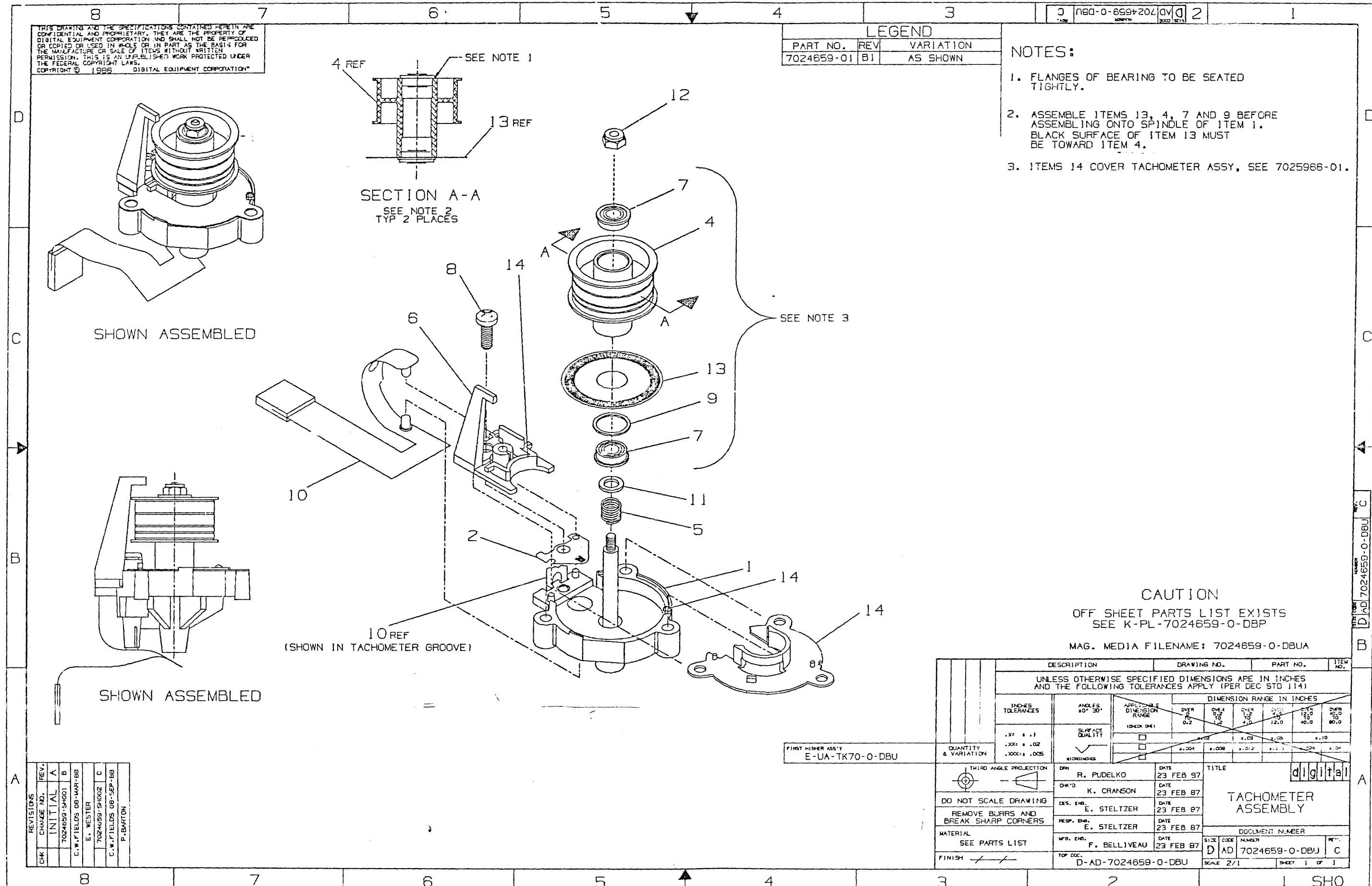


CAUTION
OFF SHEET PARTS LIST EXISTS
SEE K-PL-7023482-0-DBP

MAG. MEDIA FILENAME: 7023482-0-DBUA

ITEM NO.	DESCRIPTION		DRAWING NO.	PART NO.				
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)							
	INCHES TOLERANCES	ANGLES ±0° 30'	APPLICABLE DIMENSION RANGE	DIMENSION RANGE IN INCHES				
	X: ± .1 XX: ± .02 XXX: ± .005	SURFACE QUALITY <input checked="" type="checkbox"/> CHECK ONE <input checked="" type="checkbox"/> ✓ <input type="checkbox"/> MICRONES	OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
				.02	.03	.05	.10	.12
				.004	.008	.012	.018	.024
								.04
FIRST HIGHER ASS'Y E-UA-TK70-0-DBU	QUANTITY & VARIATION							
THIRD ANGLE PROJECTION		DRAWN R. PUDELKO DATE 21 FEB 87		TITLE digital				
DO NOT SCALE DRAWING		CHECK'D K. CRANSON DATE 15 JUN 87		BRACKET, HEAD ASSEMBLY				
REMOVE BURRS AND BREAK SHARP CORNERS		DES. ENG. P. BARTON DATE 15 JUN 87						
MATERIAL SEE PARTS LIST		RESP. ENG. K. CRANSON DATE 15 JUN 87						
FINISH		MFG. ENG. F. BELLIVEAU DATE 17 JUN 87		DOCUMENT NUMBER C AD 7023482-0-DBU A				
		TCP.DOC. C-AD-7023482-0-DBU		SCALE 1/1 SHEET 1 OF 1				

REVISIONS	CHANGE NO.	REV.
A	INITIAL	A



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P A R T S L I S T

SHEET A1 OF A1

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QUANTITY PER VARIATION/REVISION	
					B1	B2
1	1 E-IA-7432341-0-DBU	74-32341-01		BODY,TACOMETER	1	
2	2 D-MD-7429220-0-DBU	74-29220-01		MASK,ENCODER	1	
3	3 C-MD-7432342-0-DBU	74-32342-01		*** THIS ITEM IS NOT USED ***	-	
4	4 D-MD-7434038-0-DBU	74-34038-01		CAPSTAN, TACHOMETER	1	
5		12-13656-05		SPRING,COMPRESSION .2350DX .83 LG	1	
6	6 D-MD-7432343-0-DBU	74-32343-01		GUIDE,TACOMETER	1	
7	7	12-22788-01		BEARING,BALL,FLANGED	2	
8	8	90-09800-00		SCREW,THD RL,FLAT PHIL F/PLAS	1	
9	9 B-MD-7431389-0-DBU	74-31389-01		RING , SUPPORT, CAPSTAN	1	
10	10	17-01088-01		CIRCUIT FLEX ASSY	1	
11	11	12-24692-03		WASHER,FLAT	1	
12	12	90-08054-00		NUT,HEX SLF LCKNG NYL INS 4-40X	1	
13	13 D-MD-7427698-0-DBU	74-27698-01		DISK,ENCODER,TACHOMETER	1	
14	14 C-IA-7025966-0-DBU	70-25966-01 A		COVER TACHOMETER ASSEMBLY	1	

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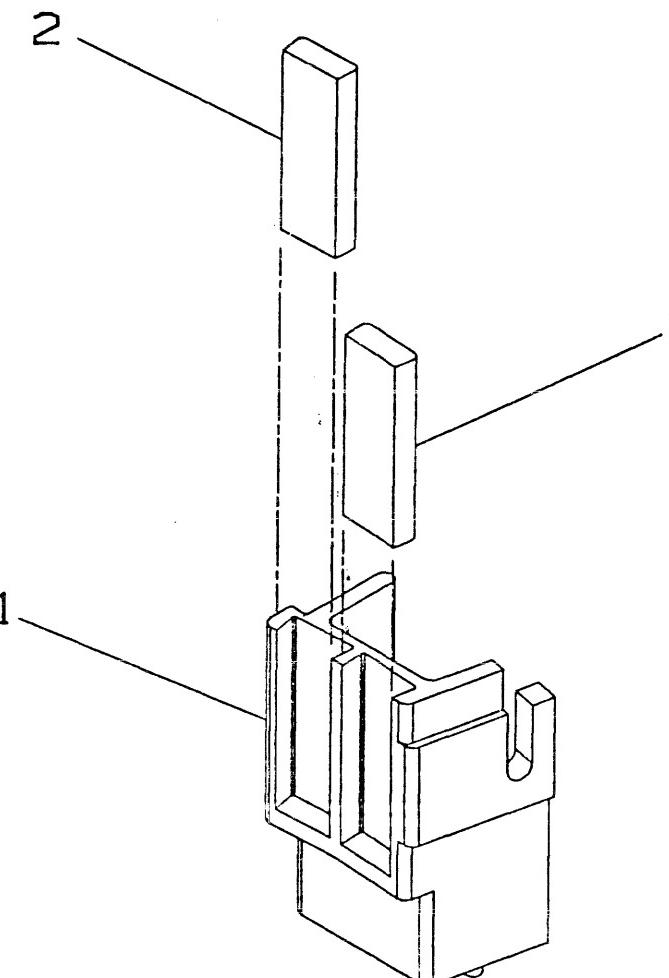
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LEGEND

PART NO.	REV	VARIATION
7021141-01	A1	AS SHOWN

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CAUTION

OFF SHEET PARTS LIST EXISTS
SEE K-PL-7021141-0-DBP

				DESCRIPTION		DRAWING NO.	PART NO.	ITEM NO.			
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)							
FIRST HIGHER ASS'Y E-UA-TK50-0-DBU	QUANTITY & VARIATION XX = ± .02 XXX = ± .005	INCHES TOLERANCES	ANGLES, ±0° 30'	APPLICABLE DIMENSION RANGE CHECK ONE	DIMENSION RANGE IN INCHES						
		MICROINCHES	SURFACE QUALITY ✓		OVER TO 0.2	OVER TO 0.2	OVER TO 1.2	OVER TO 4.0	OVER TO 12.0	OVER TO 40.0	OVER TO 60.0
THIRD ANGLE PROJECTION 		DO NOT SCALE DRAWING		DAN H.A. OLSON	DATE 3/14/84	TITLE		digital			
REMOVE BURRS AND BREAK SHARP CORNERS		MATERIAL SEE PARTS LIST		CHK'D E. WESTER	DATE 3/14/84	EXTERNAL SHIELD ASSEMBLY					
FINISH		MFG. ENG. W. HARRIS		DES. ENG. E. WESTER	DATE 3/14/84	DOCUMENT NUMBER					
		TOP DOC.		RESP. ENG. G. SCHNEIDER	DATE 3/14/84	SIZE CODE C IA	NUMBER 7021141-0-DBU	REV. A			
						SCALE 2:1		SHEET 1 OF 1			

AUTOMATED BY PRTLST.5R(55)

PARTS LIST

SHEET A1 OF A1

LINE ITEM TOP DOCUMENT

MIN

PART NUMBER REV DESCRIPTION

QTY PER VARIATION

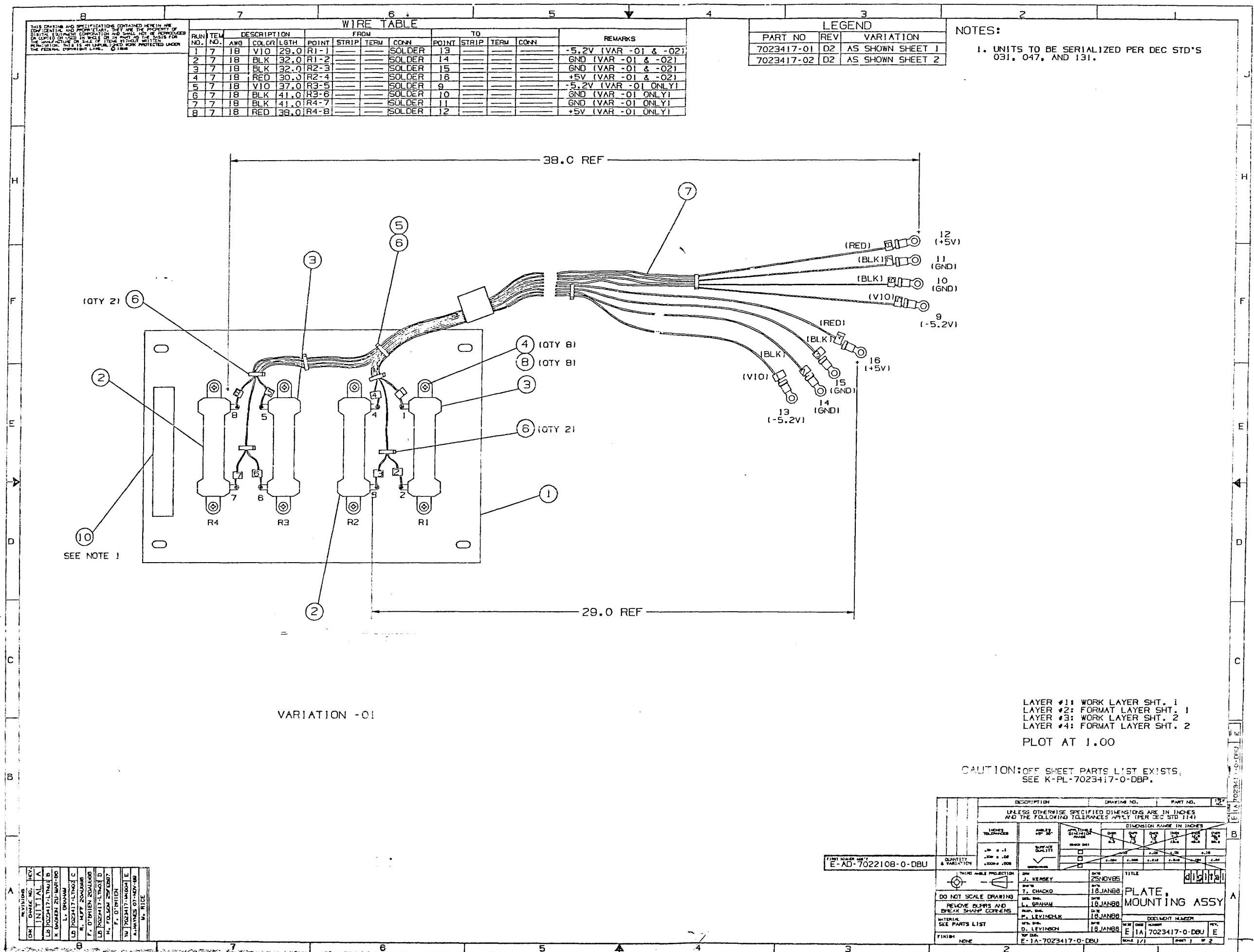
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VARIATION REVISION LEVEL: N/A

1	1	D-MD-7429208-0-DBU	7429208-01	BRACKET, EXTERNAL SHIELD	1
2	2	B-MD-7429371-0-DBU	7429371-01	SHEILD,HEAD	2

REVISION HISTORY			BASIC PART NO: 7021141	DRN:	C.W.FIELDS	DATE: 16-MAR-85	D	I	G	I	T	A	L
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	E.WESTER	DATE: 16-MAR-85	TITLE		PARTS LIST				
---	INITIAL	A	SECTION VARIATION INDEX [A]01	DES.ENG:	E.WESTER	DATE: 16-MAR-85	EXTERNAL SHIELD ASSY						
			[B]	RESP.ENG.:	G.SCHNEIDER	DATE: 16-MAR-85	DOCUMENT NUMBER						
			[C]	MFG.ENG.:	W.HARRIS	DATE: 16-MAR-85	K	PL	7021141-0-DBP		A		
			[D]	ASSEMBLY NUMBER:		RELEASE DATE: 28-MAR-85							
			[E]	C-IA-7021141-0-DBU									
			[F]										

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OWNER: MKO

P A R T S L I S T

SHEET A1

OF A1

PAGE 1 OF

LINE ITEM TOP DOCUMENT

PART NUMBER REV

DESCRIPTION

01 02

1

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1	1	D-IA-7433239-0-DBU	74-33239-01	PLATE,MTG.,BI	EXTERNAL LOAD	1	1	
2	2		13-09084-00	1.0	55.0 W 5.0 %	WW	2	1
3	3		13-00155-00	2.0	55.0 W 5.0 %	WW	2	1
4	4		90-06040-01	SCREW,MACH	8-32 PAN	.625 XRCS	8	4
5	5		90-07867-00	MOUNT, PUSH,CABLE TIE			1	1
6	6		90-07031-00	TIE,CABLE BUNDL.DIA 0-	3/4"=101		5	3
7	7		17-01308-01	WIRE HARN ASSY	18AWG 8RING		1	-
8	8		90-08151-00	WASHER,LOCK	EXTERNAL STEEL	.	8	4
9	9		17-01324-01	WIRE HARN ASSY	04COND 18AWG 4RING		-	1
10	10		36-22147-06	LABEL,BAR CODE.THERMAL	1.00 X 2.5		1	1

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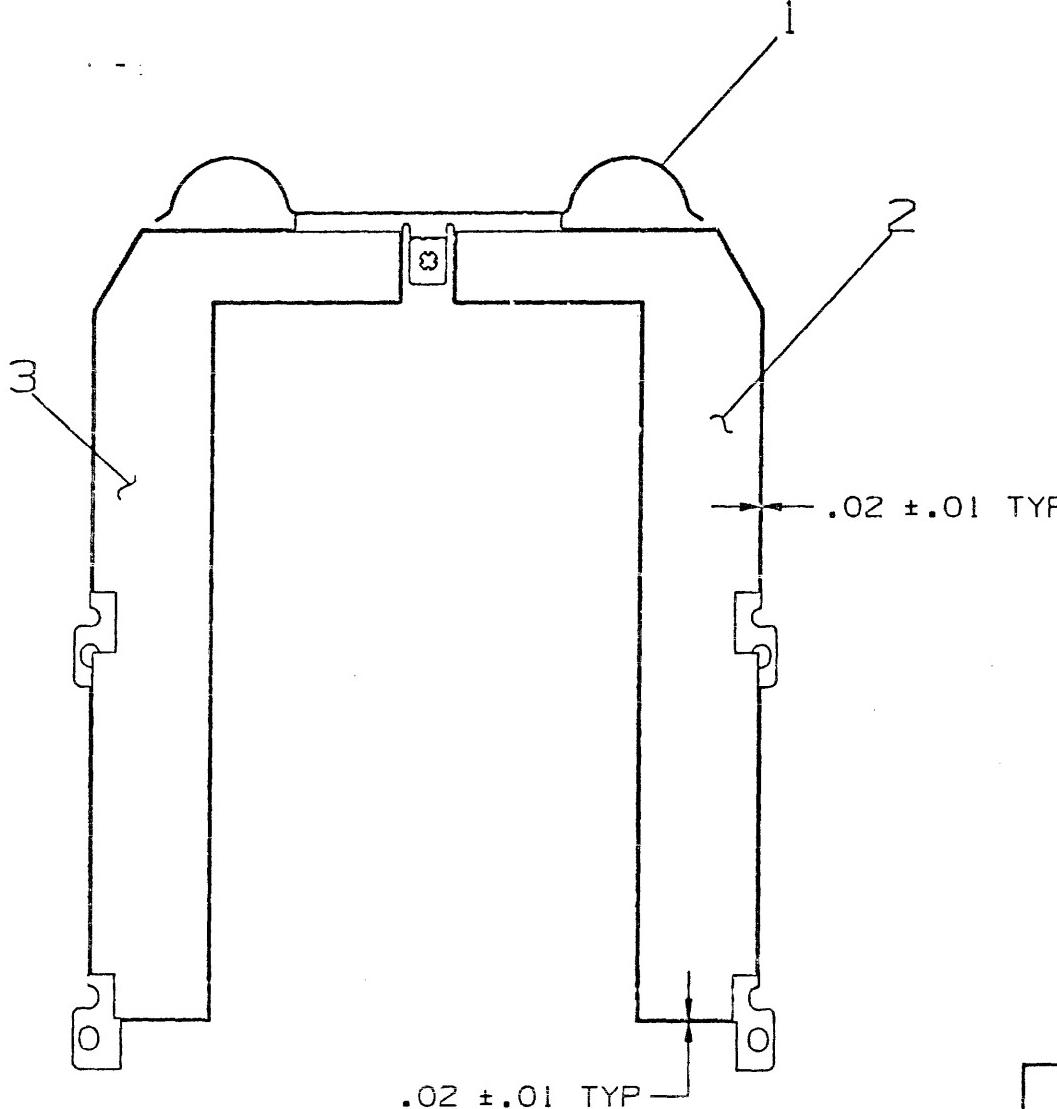
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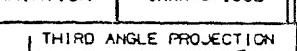
LEGEND

LEGEND

NOTE



CAUTION

			DESCRIPTION		DRAWING NO.	PART NO.	ITEM NO.				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)											
			INCHES TOLERANCES •X: ± .1 •XX: ± .02 •XXX: ± .005	ANGLES ±0° 30° SURFACE QUALITY MICROINCHES	APPLICABLE DIMENSION RANGE (CHECK ONE) <input type="checkbox"/> OVER 0 TO 0.2 <input type="checkbox"/> ±.02 <input type="checkbox"/> ±.004 <input type="checkbox"/> ±.008 <input type="checkbox"/> ±.012 <input type="checkbox"/> ±.016 <input type="checkbox"/> ±.024 <input type="checkbox"/> ±.04	DIMENSION RANGE IN INCHES					
						OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 60.0
FIRST HIGHER ASS'Y E-UA-TK50-0-DBU		QUANTITY & VARIATION	THIRD ANGLE PROJECTION 		DRN M. O'DONNELL	DATE 27SEPT84	TITLE	digital			
DO NOT SCALE DRAWING				CHK'D E. WESTER	DATE 20 DEC 84						
REMOVE BURRS AND BREAK SHARP CORNERS				DES. ENG. M. O'DONNELL	DATE 27SEPT84						
MATERIAL				RESP. ENG. G. SCHNEIDER	DATE 20 DEC 84						
SEE PARTS LIST				MFG. ENG. K. CRANSON	DATE 20 DEC 84						
FINISHED				TOP DOC.							
DOCUMENT NUMBER								REV.			
C AD 7021765-0-DBU								A			

LINE ITEM TOP DOCUMENT

MIN

PART NUMBER REV DESCRIPTION

QTY PER VARIATION

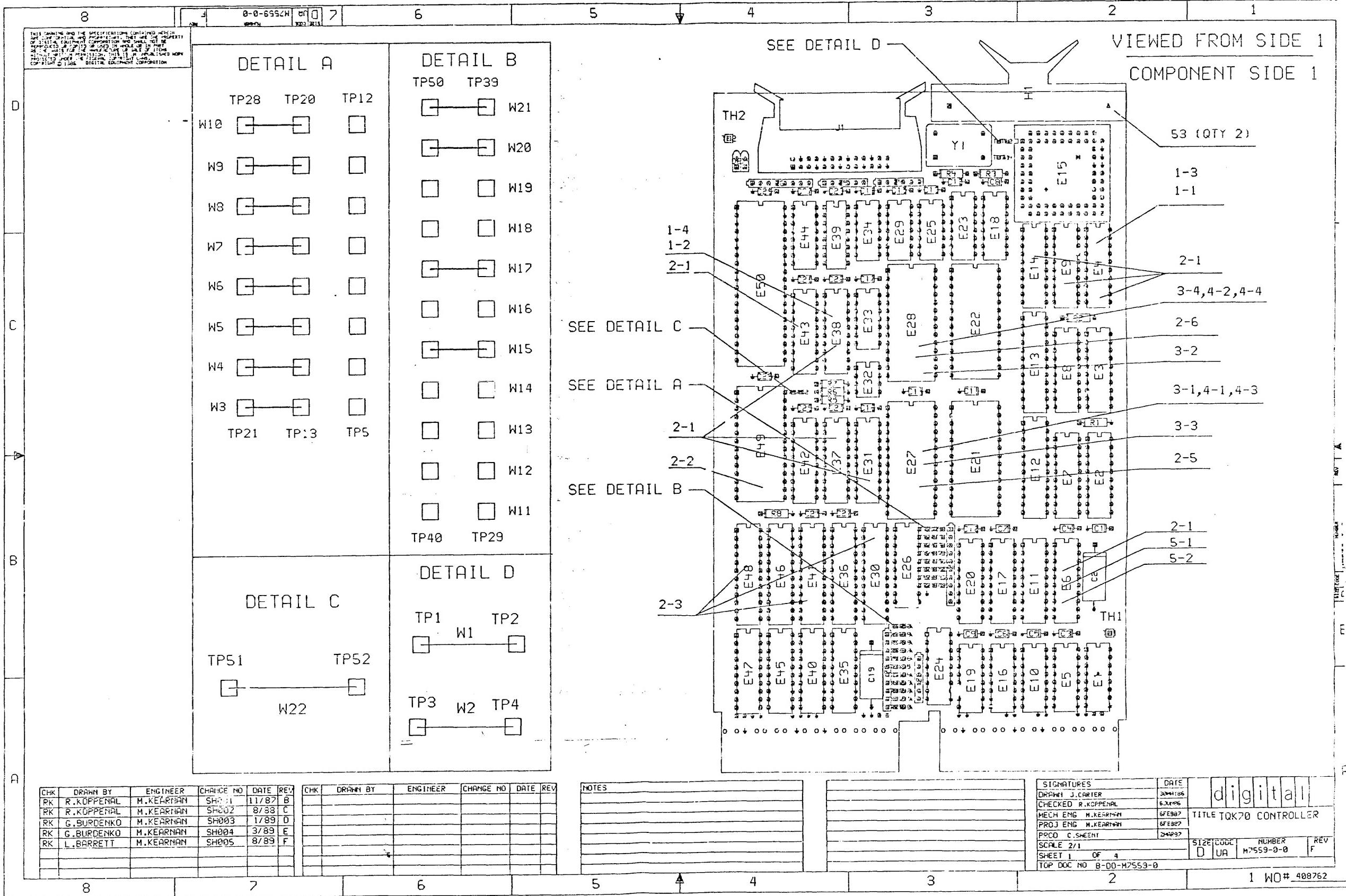
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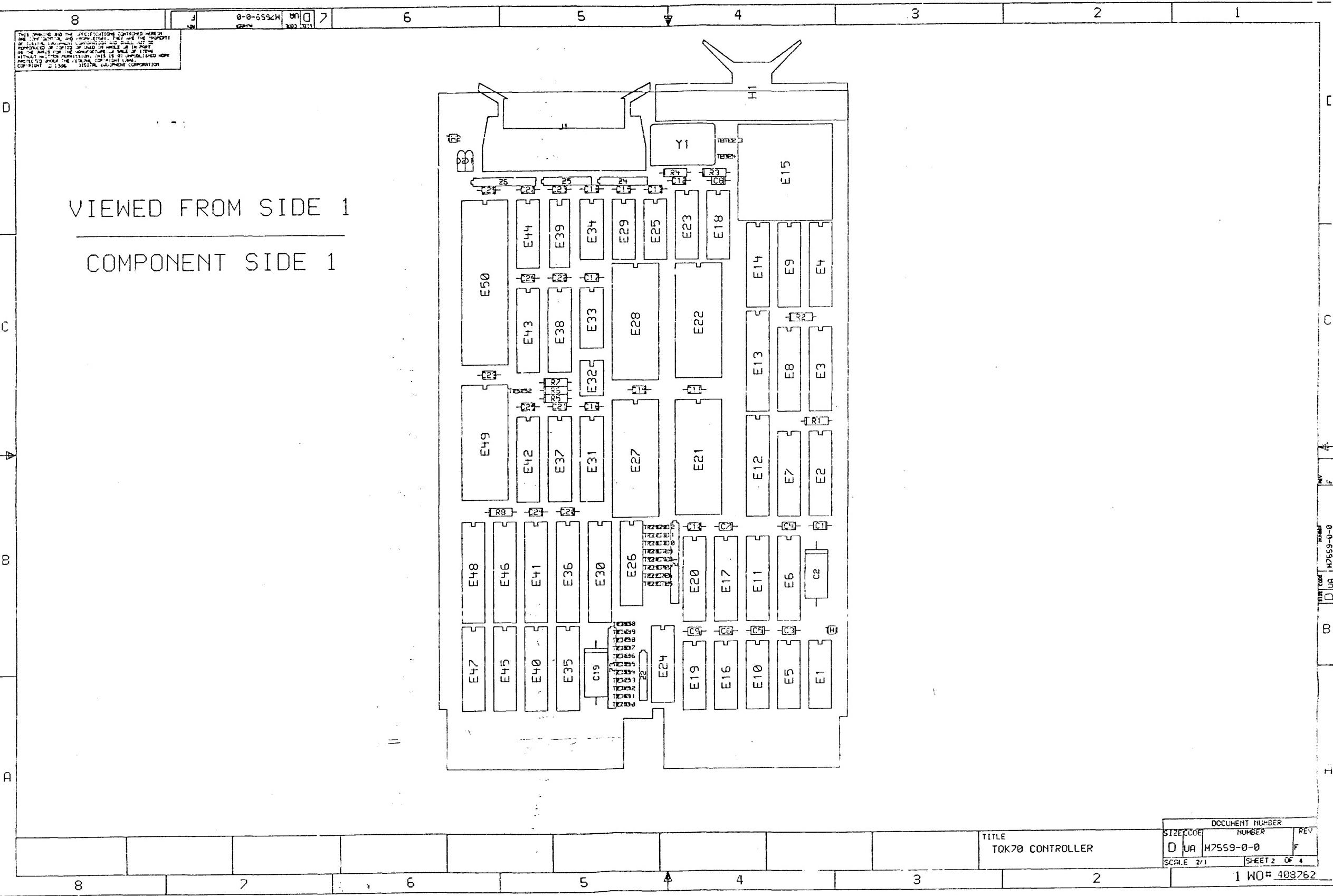
VARIATION REVISION LEVEL: N/A

1	1	D-MD-7430814-0-DBU	7430814-01	CLIP GROUNDING REWORKED	1
2	2	C-MD-7431149-0-DBU	7431149-02	INSULATOR, SKID PLATE, R.H.	1
3	3	C-MD-7431149-0-DBU	7431149-01	INSULATOR, SKID PLATE, L.H.	1

REVISION HISTORY			BASIC PART NO: 7021765	DRN:	M. O'DONNELL	DATE: 30-JAN-85	D	I	G	I	T	A	L
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	E. WESTER	DATE: 30-JAN-85	TITLE		PARTS LIST				
	INITIAL	A	SECTION VARIATION INDEX [A]01	DES.ENG:	M. O'DONNELL	DATE: 27-SEP-84	INSULATOR ASSY.				DOCUMENT NUMBER		
			[B]	RESP.ENG.:	G. SCHNEIDER	DATE: 30-JAN-85	SIZE	CODE	NUMBER	REV			
			[C]	MFG.ENG.:	K. CRANSON	DATE: 30-JAN-85	K	PL	7021765-0-DBP	A			
			[D]	ASSEMBLY NUMBER:		RELEASE DATE: 26-FEB-85							
			[E]	C-AD-7021765-0-DBU	TOP DOCUMENT NUMBER: C-AD-7021765-0-DBU	FILE NAME: SH136A.PLS	EDIT #						7
			[F]										

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REWORK INSTRUCTIONS

ECO # 1

SIDE 1

COMPONENT DELETE :

1-1. DELETE P/N 23-192K3-00, E4.

1-2. DELETE P/N 23-94K4-00, E38.

COMPONENT ADD :

1-3. ADD P/N 23-219K3-00, E4.

1-4. ADD P/N 23-123K4-00, E38.

ECO # 2

SIDE 1

COMPONENT DELETE :

2-1. DELETE P/N 12-15006-04 SKT, IC 20 PIN DIP QTY. 8 REF DES. XE4,XE6,XE9,XE14,XE31,XE37,XE38,XE43.

2-2. DELETE P/N 12-15006-07 SKT, IC 28 PIN DIP QTY. 1 REF DES. XE49.

2-3. DELETE P/N 12-15006-13 SKT, IC 24 PIN DIP QTY. 3 REF DES. XE30,XE41,XE48.

2-4. DELETE P/N 23-E6 -05 32KX8 UV EPROM 150NS QTY. 2 REF DES. E27. E28.

COMPONENT ADD :

2-5. ADD P/N 23-157E6-00 32KX8 UV EPROM 150NS QTY. 1 REF DES. E27.

2-6. ADD P/N 12-158E6-00 32KX8 UV EPROM 150NS QTY. 1 REF DES. E28.

NOTES :

1. SOCKET REMOVAL: MODULE REV LEVEL A1 & A2 BOARDS ARE NOT TO BE REWORKED.

2. EPROM REPLACEMENT: MODULE REV LEVEL A1 & A2 BOARDS ARE TO BE UPDATED.

THIS IS DETERMINED BY THE "EPROMS LABEL" DATE CODE OR RELEASE CODE AS FOLLOWS:

EPROM LOCATION	*DATED CODE	RELEASED CODE
E27	7/23 L	23-157E6-00
E28	7/23 H	23-158E6-00

* ANY DATED CODE EARLIER THAN 7/23 HAS TO BE REPLACED.

8	7	6	5	4	3	2	1
TITLE TOK70 CONTROLLER							DOCUMENT NUMBER D UA M7559-0-0 F
SCALE 2/1							SHEET 3 OF 4
1 WO# 408262							

8	5	6	7	4	3	2	1
0-0 M7559-0-0 REV F							

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D	REWORK INSTRUCTIONS																																														
	ECO # 3																																														
C	SIDE 1																																														
B	COMPONENT DELETE:																																														
	3-1. DELETE P/N 23-157E6-00 32KX8 UV EPROM 150NS QTY. 1, REF DES. E27.																																														
	3-2. DELETE P/N 23-158E6-00 32KX8 UV EPROM 150NS QTY. 1, REF DES. E28.																																														
	COMPONENT ADD:																																														
	3-3. ADD P/N 23-363E6-00 32KX8 UV EPROM 150NS QTY. 1, REF DES. E27.																																														
	3-4. ADD P/N 23-364E6-00 32KX8 UV EPROM 150NS QTY. 1, REF DES. E28.																																														
A	ECO # 4																																														
	SIDE 1																																														
	COMPONENT DELETE:																																														
	4-1. DELETE P/N 23-363E6-00 32KX8 UV EPROM 250NS QTY. 1, REF DES. E27.																																														
	4-2. DELETE P/N 23-364E6-00 32KX8 UV EPROM 250NS QTY. 1, REF DES. E28.																																														
	COMPONENT ADD:																																														
	4-3. ADD P/N 23-410E6-00 32KX8 UV EPROM 150NS QTY. 1, REF DES. E27.																																														
	4-4. ADD P/N 23-411E6-00 32KX8 UV EPROM 150NS QTY. 1, REF DES. E28.																																														
	ECO # 5																																														
	SIDE 1																																														
	COMPONENT DELETE:																																														
	5-1. P/N 23-304J5-00 J5-01 PAL, LOGIC REF. DES. E6																																														
	COMPONENT ADD:																																														
	5-2. P/N 23-510J5-00 J5-01 PAL, LOGIC REF. DES. E6																																														
<table border="1"> <tr> <td colspan="8">DOCUMENT NUMBER</td> </tr> <tr> <td>SIZE/CODE</td> <td>NUMBER</td> <td>REV</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>D</td> <td>UA</td> <td>M7559-0-0</td> <td>F</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="8">SCALE 2/1 SHEET 4 OF 4</td> </tr> <tr> <td colspan="8">1 WO# 408762</td> </tr> </table>								DOCUMENT NUMBER								SIZE/CODE	NUMBER	REV						D	UA	M7559-0-0	F					SCALE 2/1 SHEET 4 OF 4								1 WO# 408762							
DOCUMENT NUMBER																																															
SIZE/CODE	NUMBER	REV																																													
D	UA	M7559-0-0	F																																												
SCALE 2/1 SHEET 4 OF 4																																															
1 WO# 408762																																															

PARTS LIST

SHEET A1 OF A2

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
1	1	B-DD-5017635-0	50-17635-01	CIRCUIT DRILL AND ETCH	1	
2	2		10-12084-01	8.0 MFD 25V +75/-10% 85	2	C2,C19
3	3		10-12784-00	0.047MFD 50V +80/-20% Z5U C	27	C1,C3-C18,C20-C29
4	4		11-14136-01	LED 6.5MA 5V 1.2MCD	2	D1,D2
5	5		12-15006-04	*** THIS ITEM IS NOT USED ***	-	
6	6		12-15006-07	SKT,IC 28PIN DIP TIN SOLD	2	XE27,XE28
7	7		12-15006-13	*** THIS ITEM IS NOT USED ***	-	
8	8		12-16832-01	PCB,HEADER 26POS(2X13).100CC 90D	1	J1
9	9		12-18783-00	JUMPER 02POS(1X02).100CC	15	W1-W10,W15,W17,W20-W22
10	10		12-23339-01	SKT,IC 68PIN	1	XE15
11	11		13-00219-00	68.0 .25 W 5.0 % CF	7	R1,R2,R4-R8
12	12		13-00365-00	1.0 K .25 W 5.0 % CF	1	R3
13	13		13-16395-02	R. NET 1.0K- 9 2.0	2	Z1,Z3
14	14		13-21219-01	R. NET 330.0 - 4 680.0 - 4 2.0	1	Z2
15	15		13-22716-01	R. NET 120.0 - 7 2.0	1	Z6
16	16		13-26490-01	R. NET 240.0 - 5 2.0	2	Z4,Z5
17	17		18-11660-24	OSCILLATOR, XTAL 18.084 MHZ	1	Y1
18	18		19-12730-00	DC 003 INTERRUPT,2 CIRCUIT	1	E24
19	19		19-12805-00	LS08 AND GATE-QUAD 2IN,PO	1	E29
20	20		19-12824-00	LS74 FF-D DUAL,EDGE TRIGG	1	E33
21	21		19-12842-00	LS138 DECODER-THREE INPUT,	1	E18
22	22		19-12850-00	LS164 SHIFT REG. 8BIT SERI	1	E34
23	23		19-12860-00	LS259 LATCH 8BIT	1	E23
24	24		19-12863-00	LS273 FF-D OCTAL W/CLEAR	1	E26
25	25		19-13040-00	DC 005 TRANSCEIVER 4BIT	4	E35,E40,E45,E47
26	26		19-14987-00	8641-2 TRANSCEIVER,UNIBUS,	5	E1,E5,E10,E16,E19
27	27		19-15123-00	26LS32 RECEIVER,QUAD,EIA RS	1	E39
28	28		19-15193-00	LS244 DRIVER,LINE,OCTAL,TR	3	E11,E17,E20
29	29		19-15218-00	LS245 TRANSCEIVER,BUS,OCTA	2	E7,E8
30	30		19-15219-00	LS373 FF-D OCTAL-TRANSPARE	2	E2,E3

REVISION HISTORY			KPL MODULE FORMAT	SECTION	A OF A	DRN: R. KOPPENAL	DATE: 17-OCT-86	D I G I T A L
ENG:	ECO NUMBER	REV	SECTION/VARIATION INDEX			CHK'D: R. KOPPENAL	TITLE	PARTS LIST
---INITIAL			[A] [A]	00	[M]	DATE: 20-FEB-87	TQK70 CONTROLLER	
M.K!	M7559-SH001	[B]	[B]	[N]			DOCUMENT NUMBER	
M.K!	M7559-SH002	[C]	[C]	[P]	DES.ENG: MIKE KEARNAN			
M.K!	M7559-SH003	[D]	[D]	[Q]	DATE: 20-FEB-87		SIZE	
M.K!	M7559-SH004	[E]	[E]	[R]		CODE!	NUMBER	REV
		[F]	[F]	[S]	RESP.ENG.: MIKE KEARNAN			
		[H]	[H]	[T]	DATE: 28-NOV-88	K	PL	M7559-0-DBP
		[J]	[J]	[V]				E
		[K]	[K]	[W]	MFG.ENG: G. KIAH	RELEASE DATE: 31-MAR-89		
		[L]	[L]	[Y]	DATE: 20-FEB-87	RELEASE STATUS: RELEASED		
BASIC PART NUMBER: M7559			ASSEMBLY NUMBER: D-UA-M7559-0-0			TOP DOCUMENT NUMBER: B-DD-M7559-0		
FILE NAME: SH288E.PLS								

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AUTOMATED BY VAXKPL (V2.0)

PARTS LIST

SHEET A2 OF A2

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
31	31	19-15851-00		26LS31 DRIVER,QUAD,EIA RS 4	1	E44
32	32	19-20442-01		74F374 FF-D,OCTAL,TRI-STATE	1	E42
33	33	19-20853-01		LS646 BUS TRANSCEIVER/REGI	2	E12,E13
34	34	21-17872-06		RAM 2KX8 I/O MUXD 20	2	E36,E46
35	35	21-18856-02		7201 CONTROLLER,MULTI-PRO	1	E50
36	36	21-22352-03		80186 MICROPROCESSOR,16BIT	1	E15
37	37	21-23613-01		256-BIT SERIAL NON-V	1	E32
38	38	21-24640-01		74HCT04 HEX INVERTER	1	E25
39	39	21-26307-02		STATIC MIX-MOS RAM 3	2	E21,E22
40	40	23-10K7 -00	K7-01	PAL, 20X 8	1	E30
41	41	23-11K7 -00	K7-01	PAL, 20X 8	1	E41
42	42	23-12K7 -00	K7-01	PAL, 20X 8	1	E48
43	43	23-192K3-00	*** THIS ITEM IS NOT USED ***			
44	44	23-193K3-00	K3-01	PAL,LOGIC	1	E31
45	45	23-304J5-00	J5-01	PAL,LOGIC	1	E6
46	46	23-305J5-00	J5-01	PAL,LOGIC	1	E9
47	47	23-306J5-00	J5-01	PAL,LOGIC	1	E14
48	48	23-307J5-00	J5-01	PAL,LOGIC	1	E37
49	49	23-308J5-00	J5-01	PAL,LOGIC	1	E43
50	50	23-78L1 -00	L1-02		1	E49
51	51	23-94K4 -00	*** THIS ITEM IS NOT USED ***			
52	52	23-E6 -05	*** THIS ITEM IS NOT USED ***			
53	53	90-06732-00	EYELET,ROLLED 0.1210DX0.219			
54	54	90-08337-06	HANDLE, FLIP CHIP, MAGENTA			
55	55	90-09149-00	PIN,STAKNG 0.0250DX0.345LG SQUAR			
56	56	23-219K3-00	K3-01	PAL,REG	1	E4
57	57	23-123K4-00	K4-03	PAL,HEX REG	1	E38
58	58	23-157E6-00	*** THIS ITEM IS NOT USED ***			
59	59	23-158E6-00	*** THIS ITEM IS NOT USED ***			
60	60	23-363E6-00	*** THIS ITEM IS NOT USED ***			
61	61	23-364E6-00	*** THIS ITEM IS NOT USED ***			
62	62	23-410E6-00	E6-04,E6-05,E6-06	OTP-ROM-U	1	E27
63	63	23-411E6-00	E6-04,E6-05,E6-06	OTP-ROM-U	1	E28

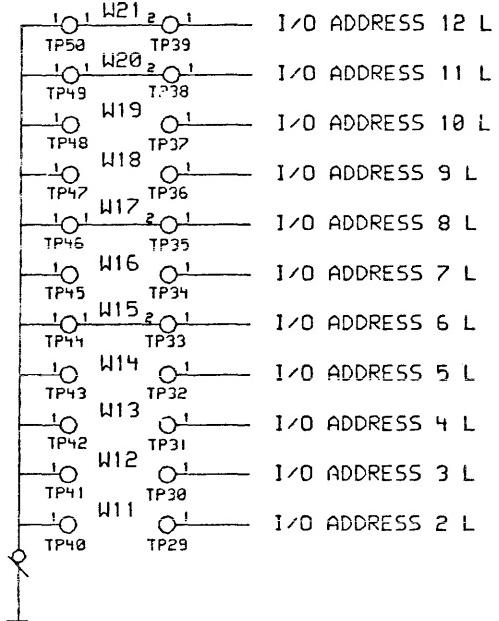
DIGITAL TITLE

TQK70 CONTROLLER

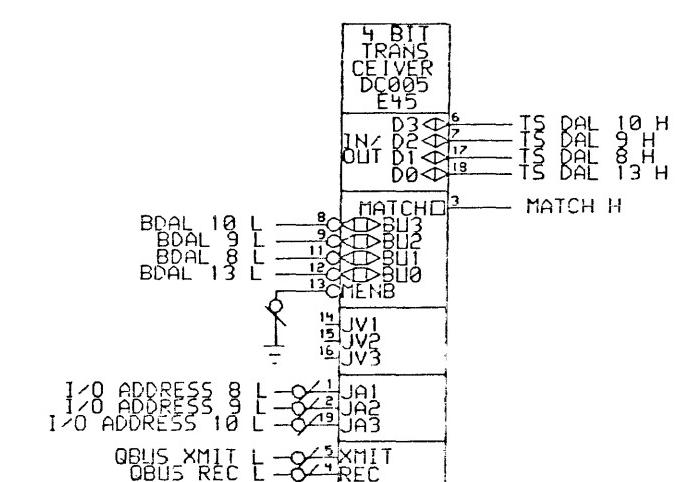
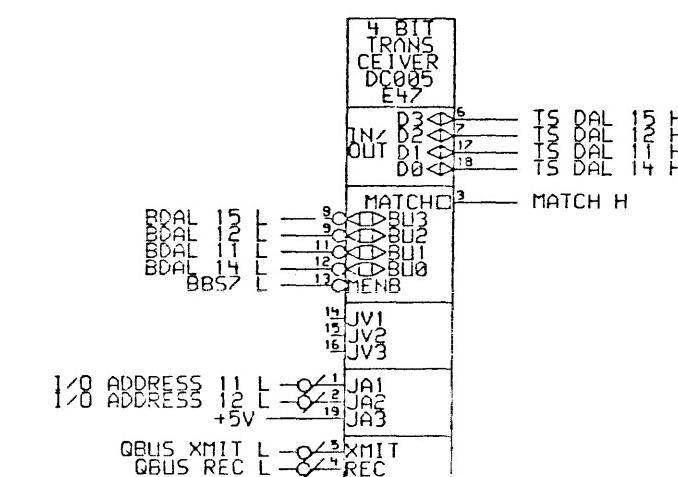
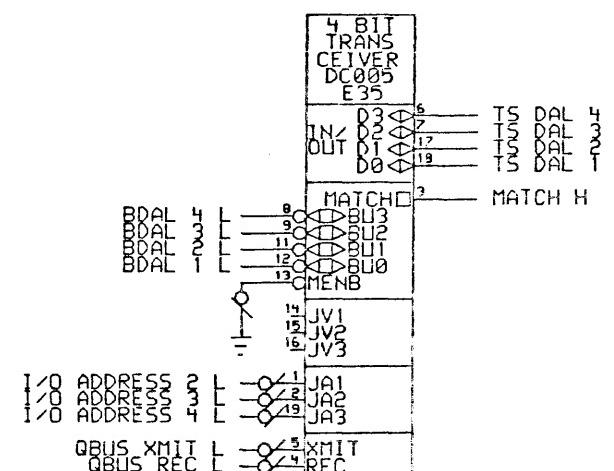
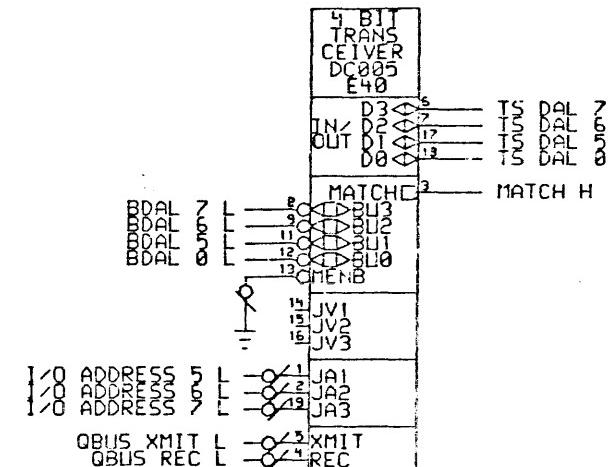
SECTION A OF A

SIZE CODE DOCUMENT NUMBER REV
K PL M7559-0-DBP E

D
CONTROLLER IP & SA
ADDRESS SELECTION



NOTE: JUMPER INSTALLED = 1
JUMPER REMOVED = 0
SHOW IS I/O ADDRESS 774500

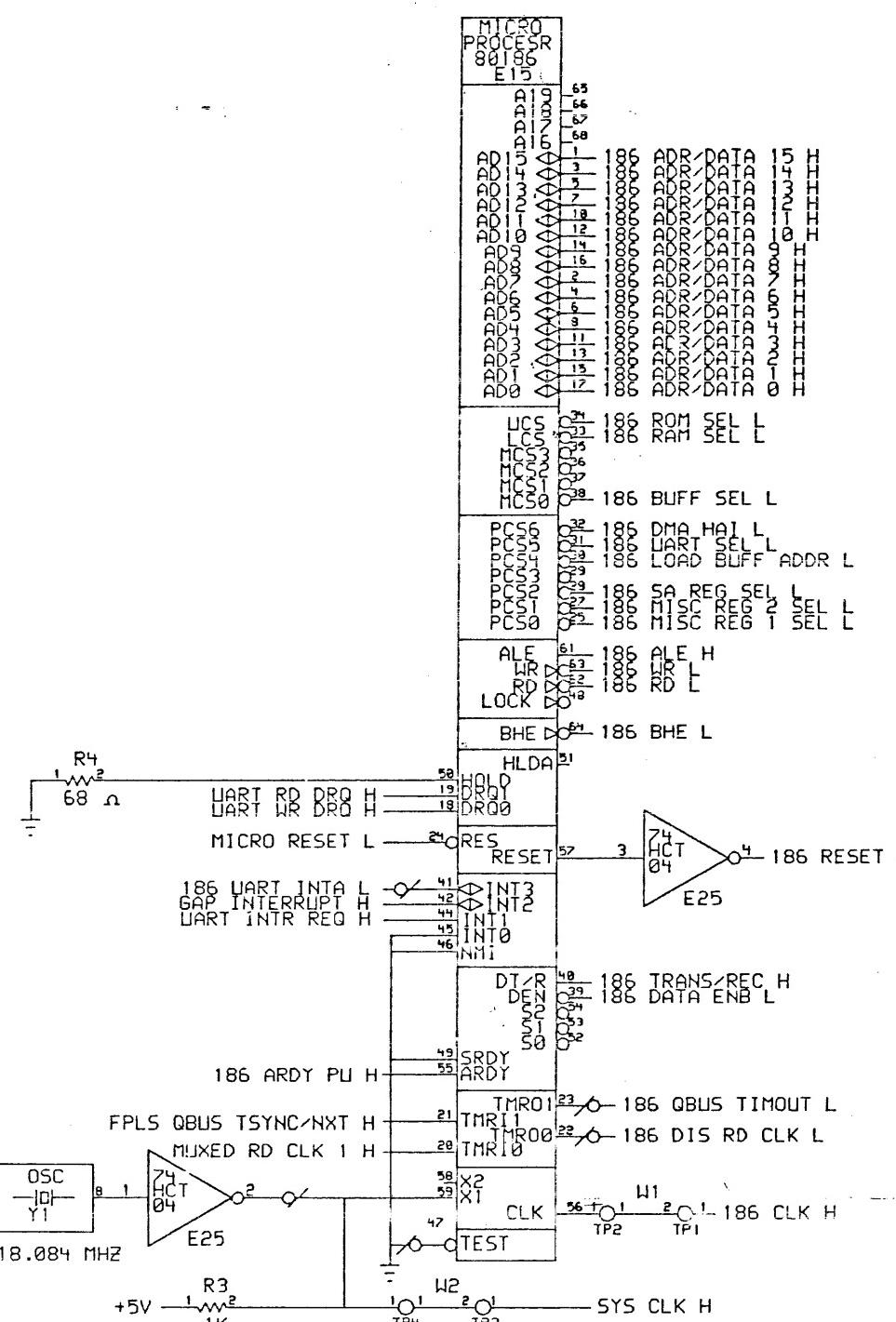
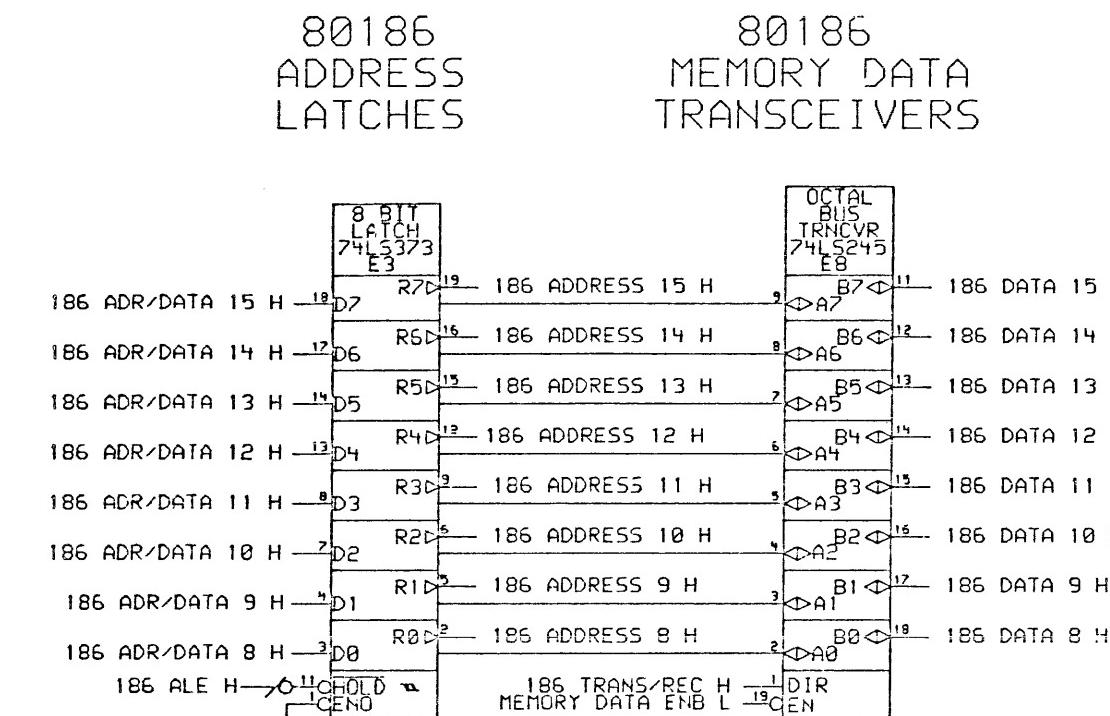
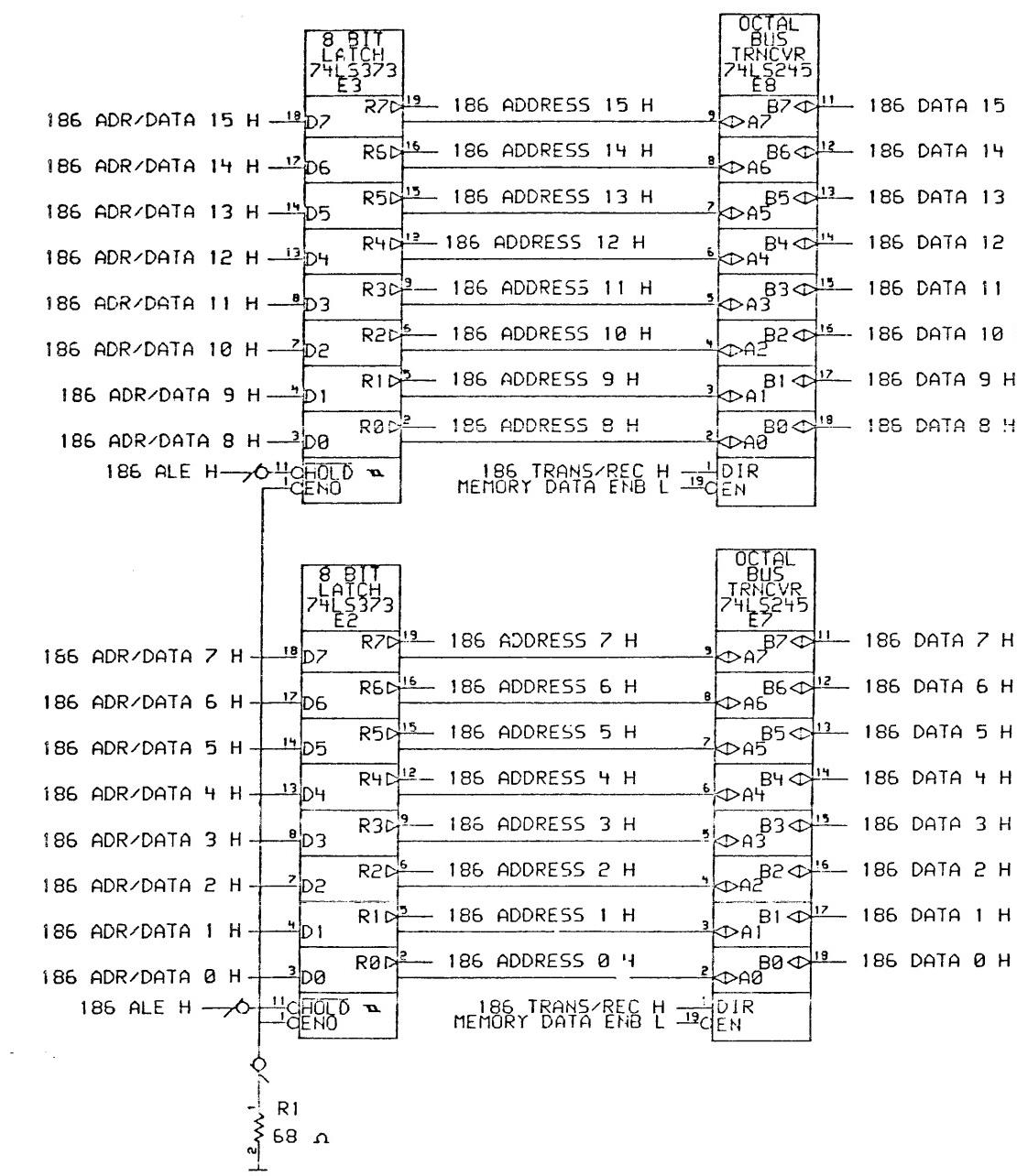


QBUS DATA TRANSCEIVERS

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PRINTED	ON OR	DATE			DATE	RECD LOC:	DATE	REV.			
8	7	6	5	4	3	2	K CS M7559-0-1	B	SIZE K	CODE CS	NUMBER M7559-0-1

8 7 6 5 4 3 2 1 K CS M7559-0-1 B

80186 MICROPROCESSOR

80186
ADDRESS
LATCHES80186
MEMORY DATA
TRANSCEIVERS

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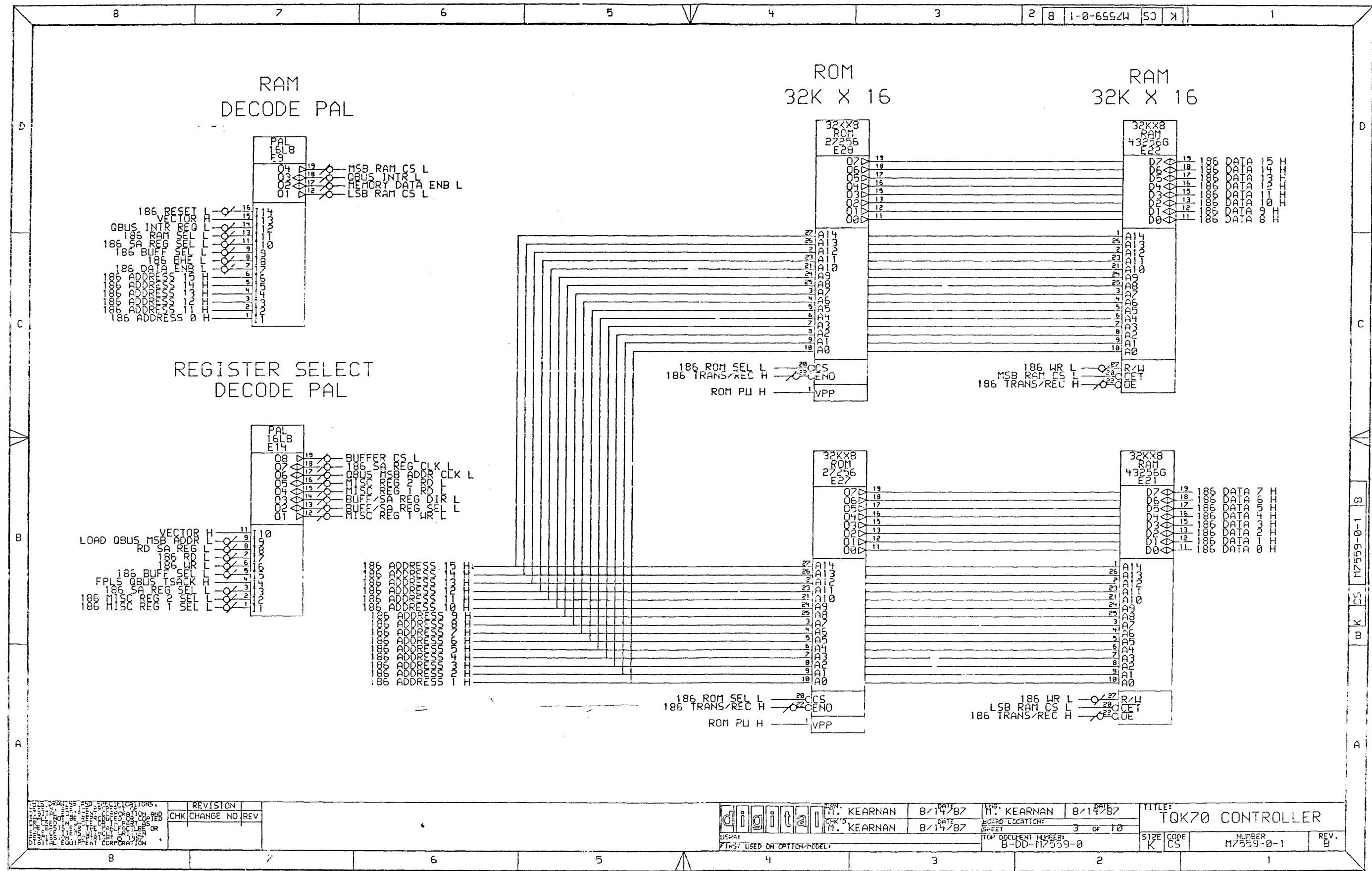
REVISION
CHK CHANGE NO REV

digita
M: KEARNAN 8/14/87
M: KEARNAN 8/14/87
DATE: 8/14/87
BOARD LOCATION:
SHEET: 2 OF 10
FIRST USED ON OPTION/MODEL:

DATE: 8/14/87
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BOARD LOCATION:
SHEET: 2 OF 10
TOP DOCUMENT NUMBER:
B-DD-M7559-0-0

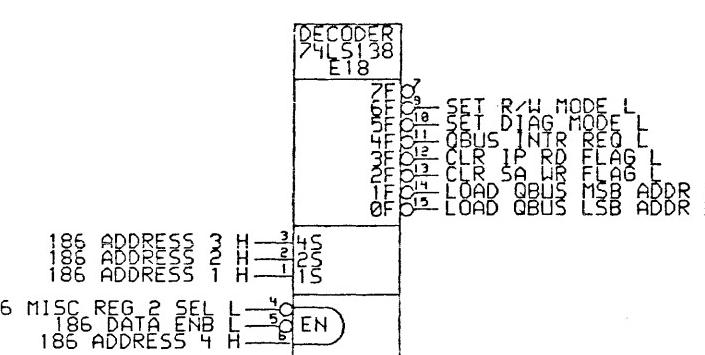
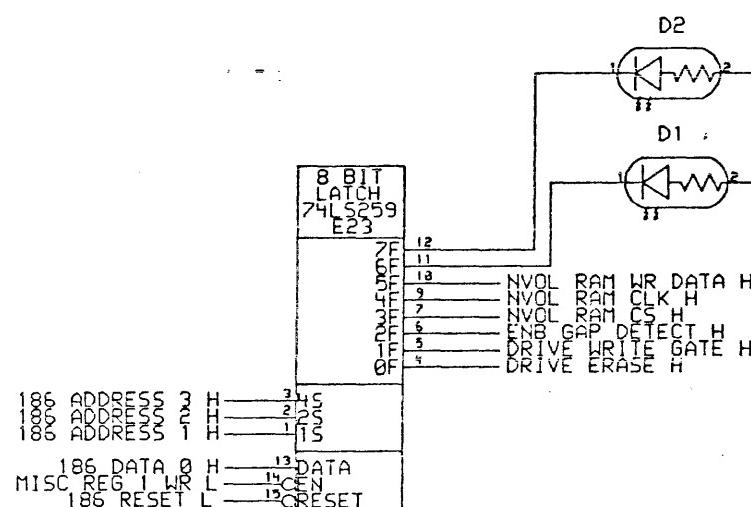
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SIZE: K CODE: M7559-0-1 REV: B

8 7 6 5 4 3 2 1 K CS M7559-0-1 B

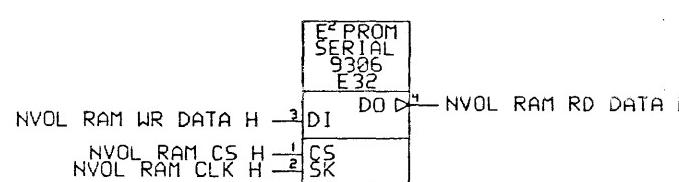


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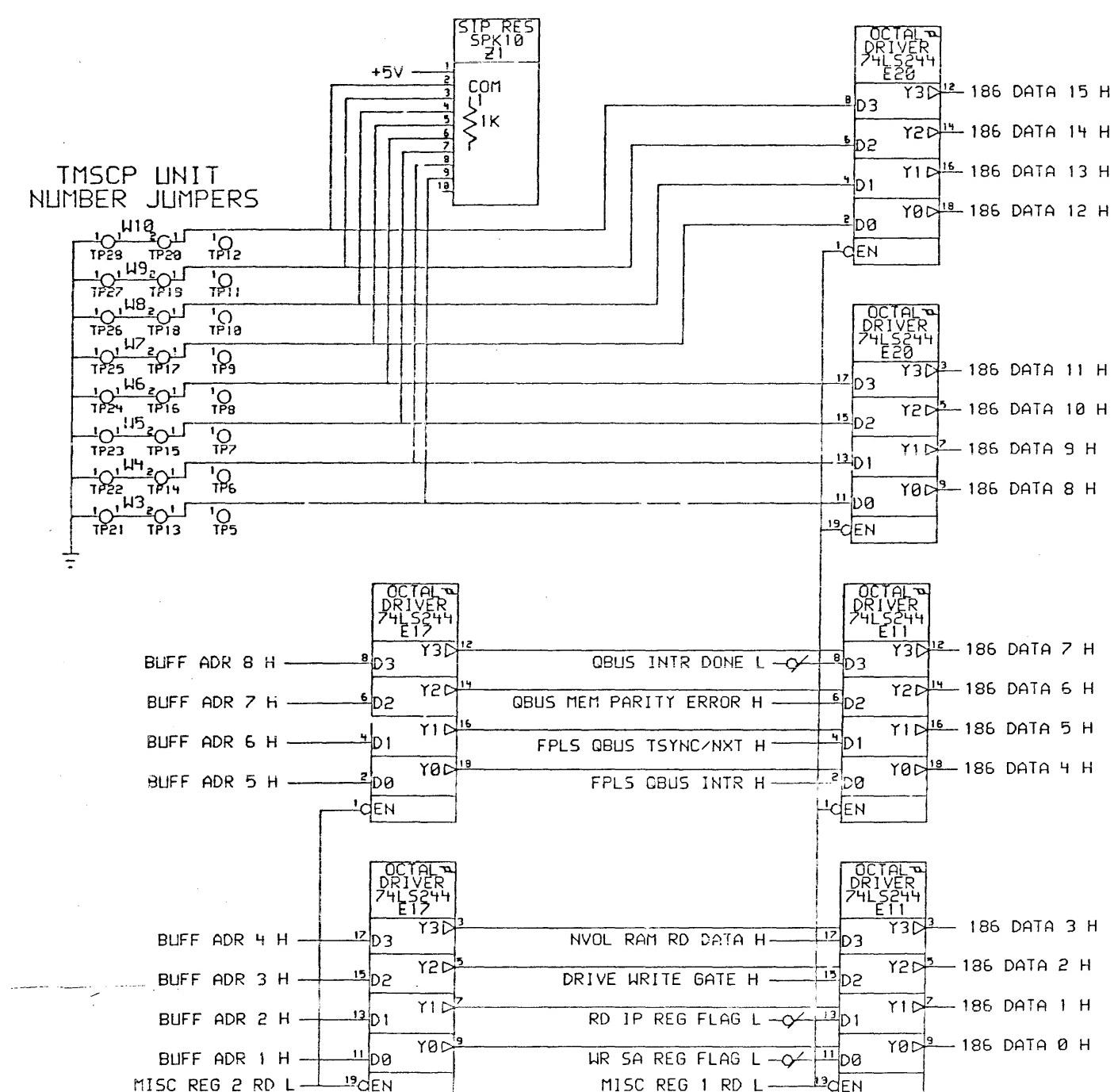
MISC WR REGISTERS



TMSCP HARDWARE REV & CONTROLLER SERIAL NUMBER RAM



MISC RD REGISTERS



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REV. C
CHK CHANGE NO. REV.

digitac
USRAI
FIRST USED ON OPTION/MODEL:

M. KEARNAN
8/14/87
M. KEARNAN
8/14/87

DATE: 8/14/87
BOARD LOCATION:
SHEET: 4 OF 10

TOP DOCUMENT NUMBER:
B-D0-M7559-0-0

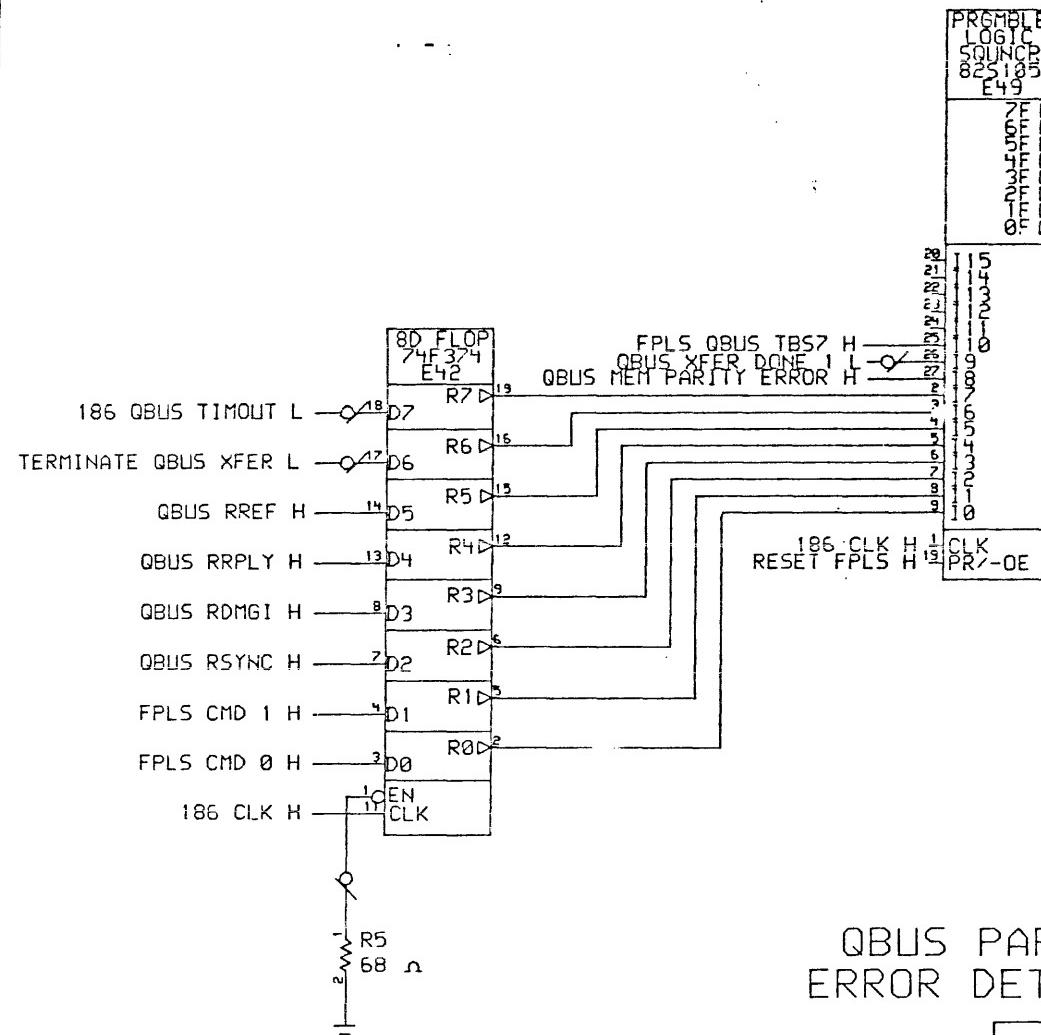
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REV. B

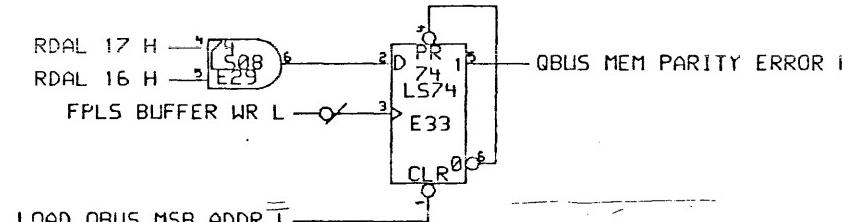
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8 7 6 5 V 4 3 2 K CS M7559-0-1 B 1

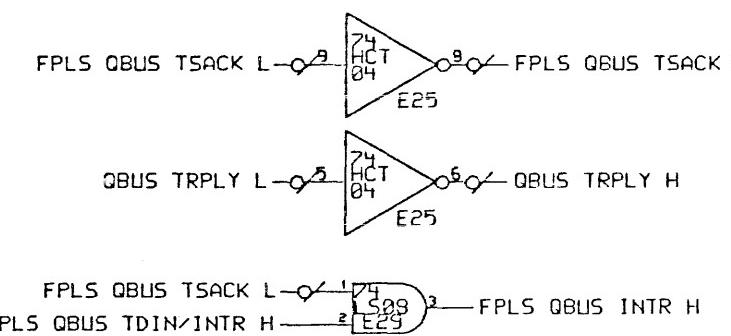
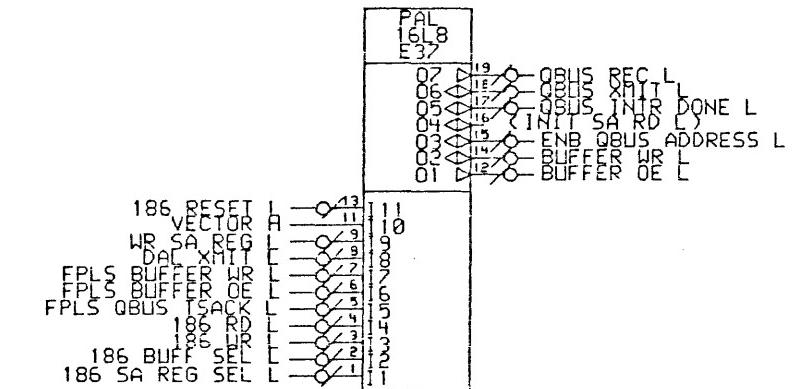
QBUS DMA CONTROLLER



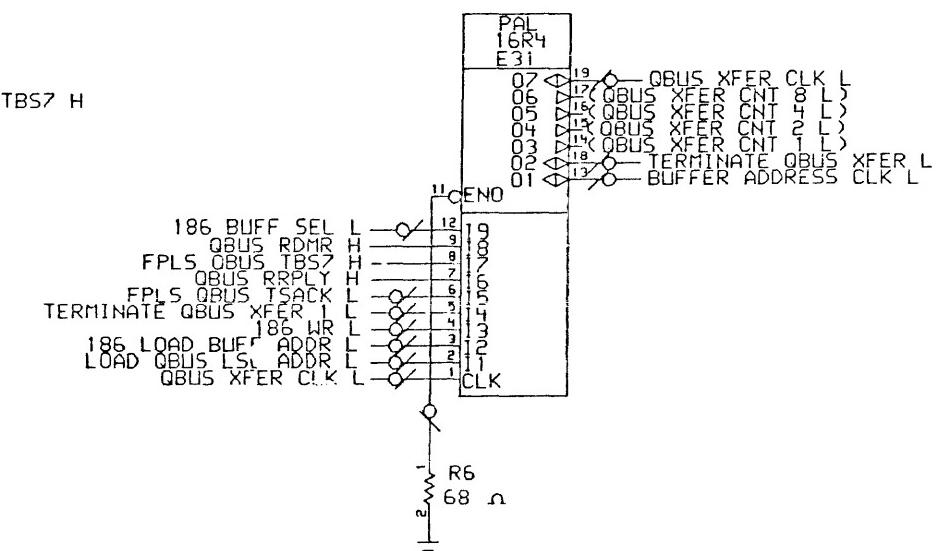
QBUS PARITY ERROR DETECTION



QBUS BUFFER DECODE PAL



QBUS XFER CONTROL PAL



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1987

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CHK CHANGE NO REV

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USPA
FIRST USED ON OPTION/MODEL:

M. KEARNAN
8/14/87

M. KEARNAN
8/14/87

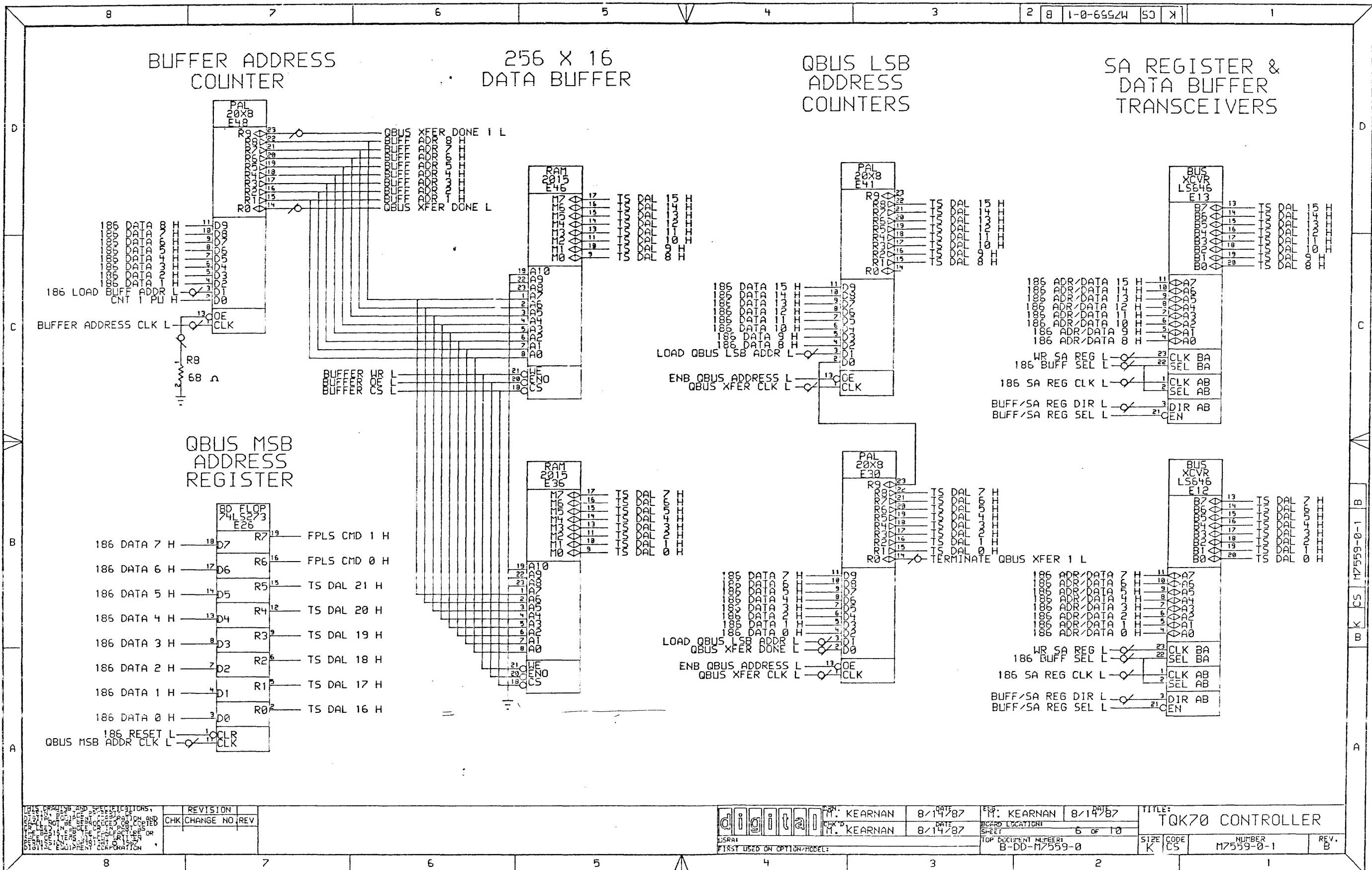
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BOARD LOCATION:
5 OF 10

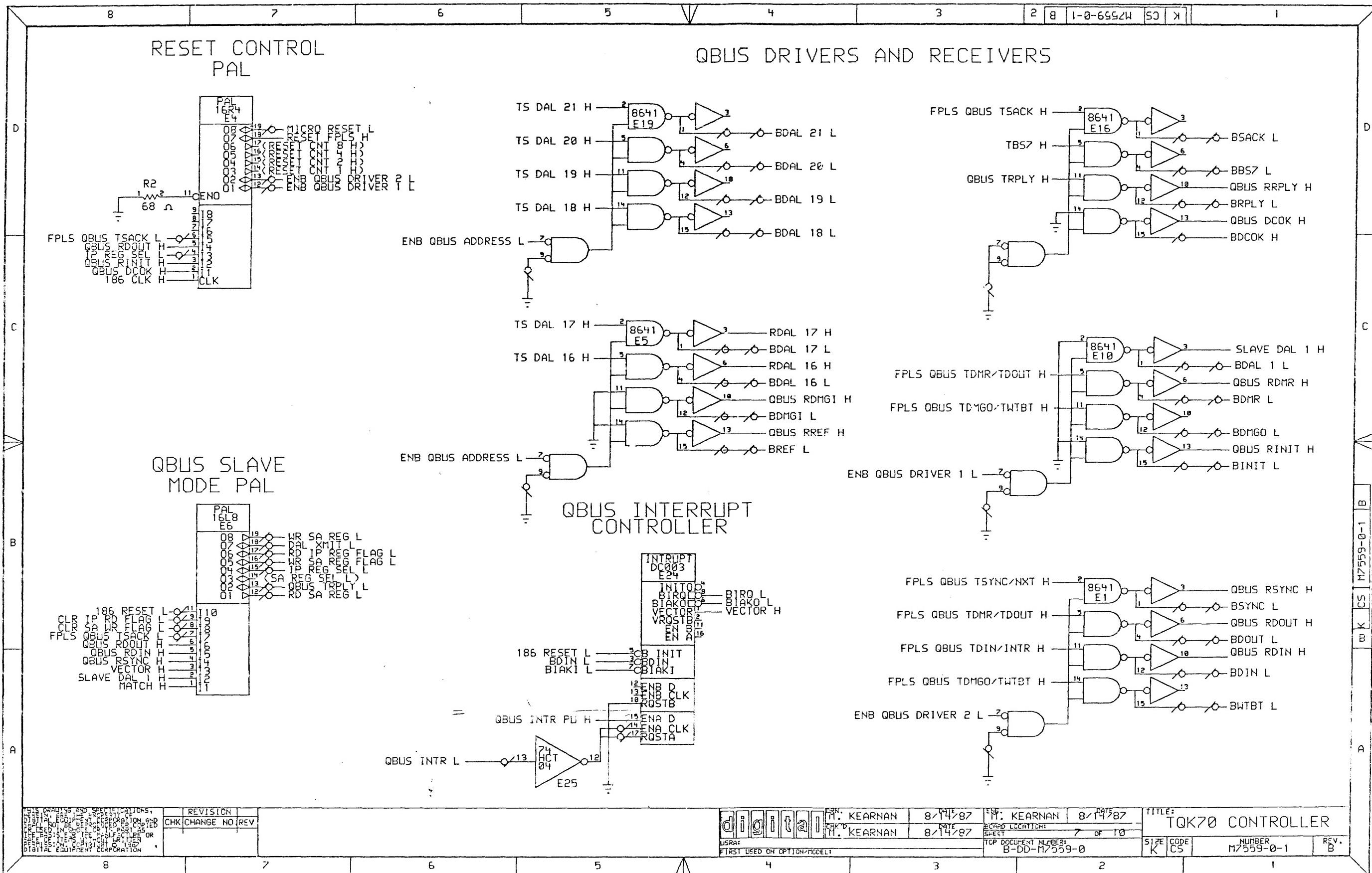
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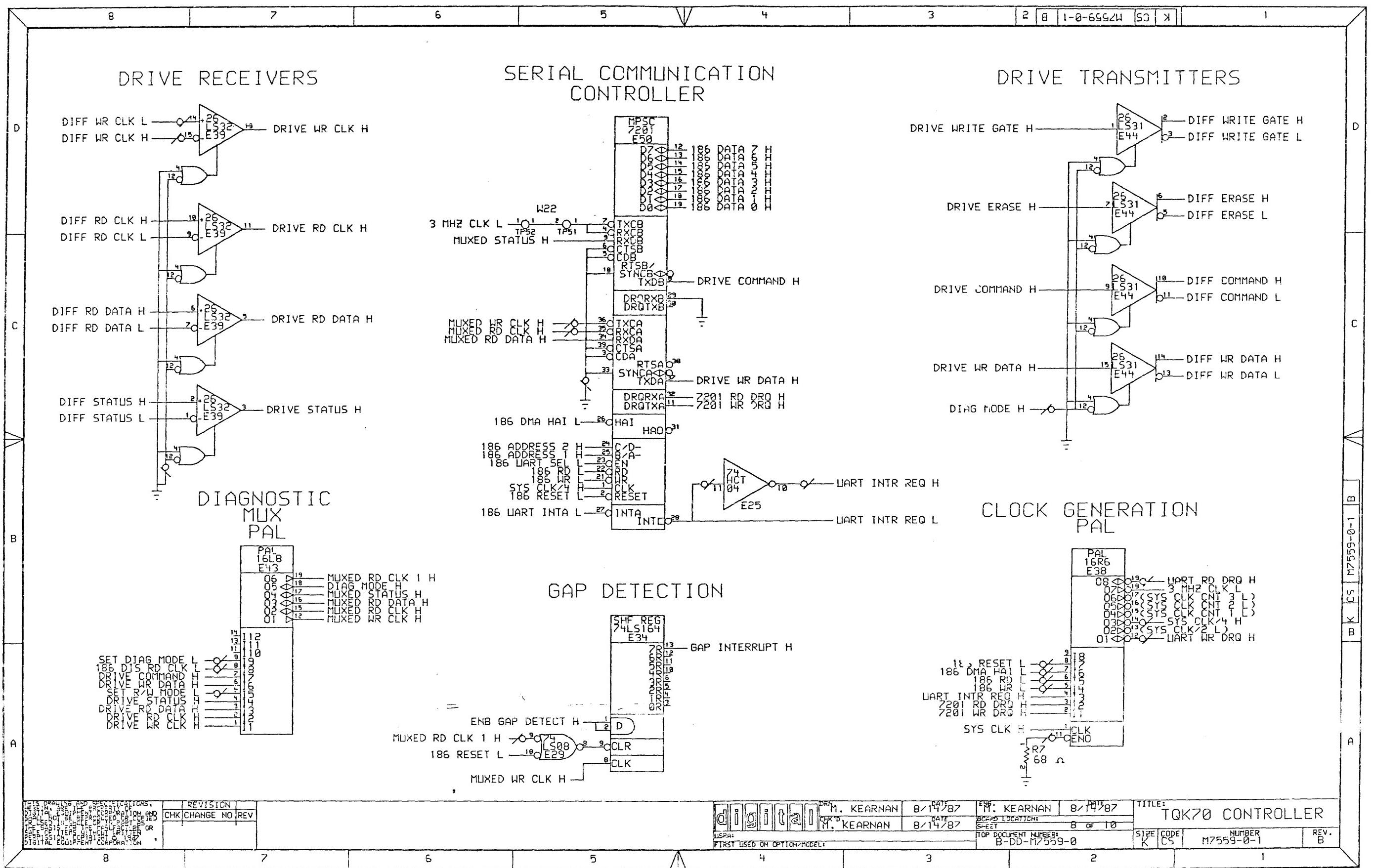
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REV.
B

8 7 6 5 V 4 3 2 K CS M7559-0-1 B 1





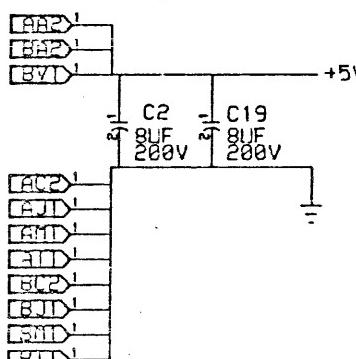


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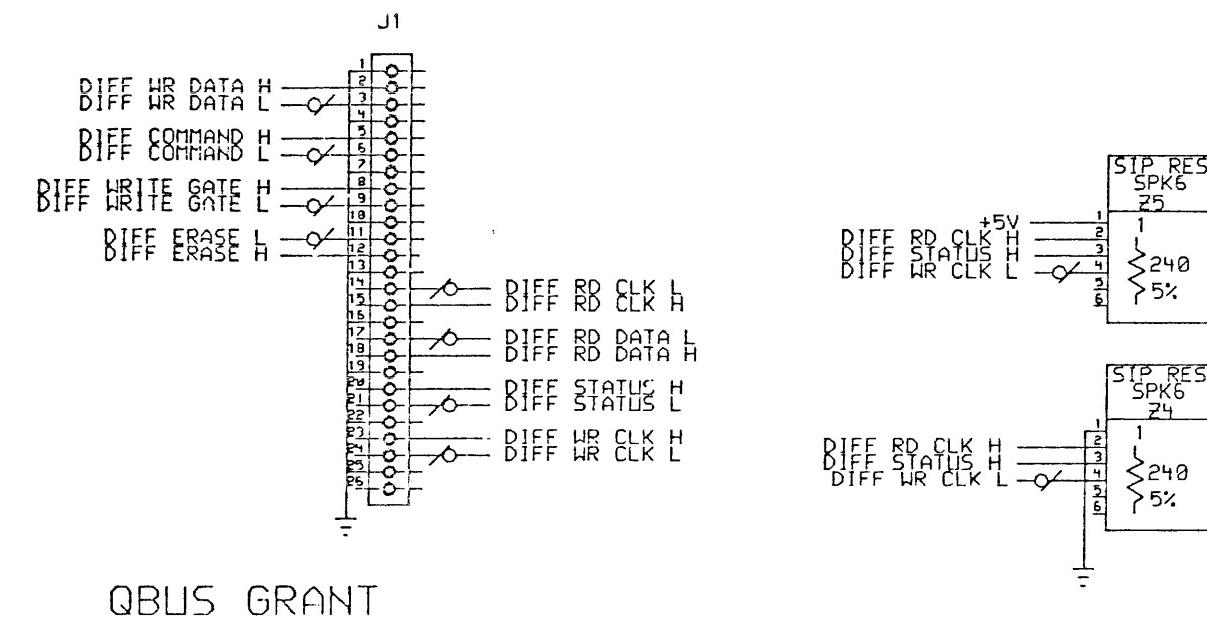
QBUS SIGNAL PINS

- [APD]¹ → BDCOK H
- [APD]¹ → BINIT L
- [BFD]¹ → BDAL 21 L
- [BFD]¹ → BDAL 20 L
- [BFD]¹ → BDAL 19 L
- [BFD]¹ → BDAL 18 L
- [BFD]¹ → BDAL 17 L
- [BFD]¹ → BDAL 16 L
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- [BFD]¹ → BDAL 14 L
- [BFD]¹ → BDAL 13 L
- [BFD]¹ → BDAL 12 L
- [BFD]¹ → BDAL 11 L
- [BFD]¹ → BDAL 10 L
- [BFD]¹ → BDAL 9 L
- [BFD]¹ → BDAL 8 L
- [BFD]¹ → BDAL 7 L
- [BFD]¹ → BDAL 6 L
- [BFD]¹ → BDAL 5 L
- [BFD]¹ → BDAL 4 L
- [BFD]¹ → BDAL 3 L
- [BFD]¹ → BDAL 2 L
- [BFD]¹ → BDAL 1 L
- [AVD]¹ → BDAL 0 L
- [ARD]¹ → BDMR L
- [ARD]¹ → BDMGI L
- [ARD]¹ → BDMGQ L
- [BNT]¹ → BSACK L
- [AKD]¹ → BWTBT L
- [AJD]¹ → BSYNC L
- [AHD]¹ → BDIN L
- [AHD]¹ → BDOUT L
- [AHD]¹ → BRPLY L
- [AHD]¹ → BIRQ L
- [AKD]¹ → BIAKI L
- [AKD]¹ → BIAKO L
- [ARD]¹ → BREF L
- [ARD]¹ → BBS7 L

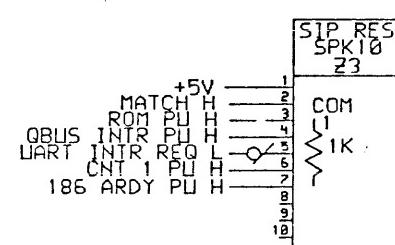
QBUS POWER PINS



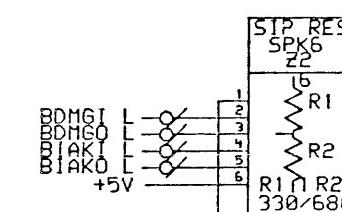
DRIVE CONNECTOR & TERMINATING RESISTORS



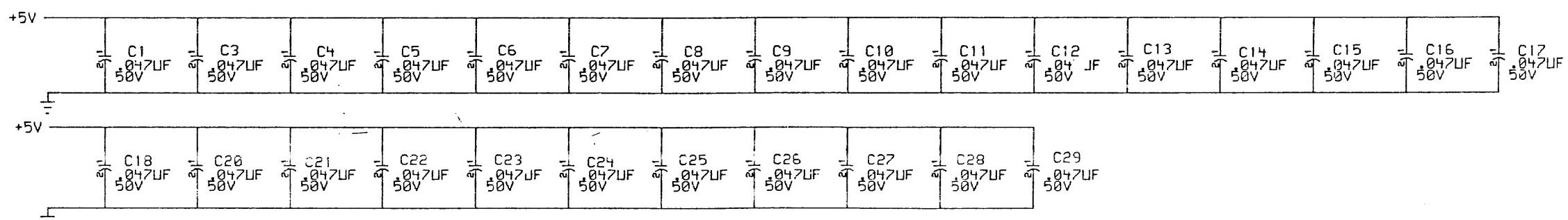
PULL UP RESISTORS



QBUS GRANT TERMINATING RESISTORS



CONTROLLER DECOUPLING CAPS



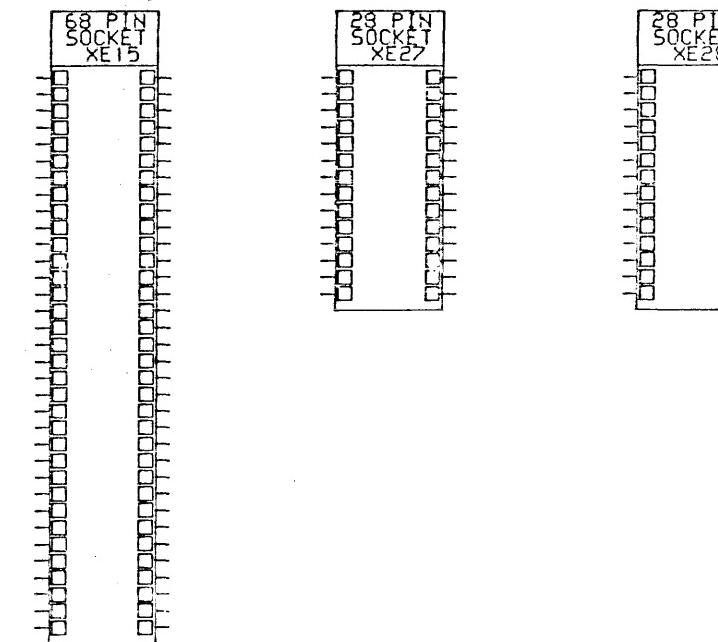
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REVISION	CHK	CHANGE NO.	REV.

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					K CODE
					NUMBER
					M7559-0-1
					REV.
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SOCKET



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					MR. KEARNAN	DATE 8/14/87	BOOM LOCATION SHEET	10 OF 10			
				LUSRAI		TOP DOCUMENT NUMBER B-DO-M7559-0		SIZE K	CODE CS	NUMBER M7559-0-1	REV. B
				FIRST USED ON OPTION/MODEL:							

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OPTION NAME:	OPTION DESCRIPTION:																			
RM ECO	ECO DESCRIPTION																			
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7021141-01	EXTERNAL SHIELD ASSY	A1																		
7023482-01	HEAD BRACKET ASSY	A1																		
7023544-01	LEADER LATCH ASSY	A1																		

MAG. MEDIA FILENAME: TK70.RM-DBUC

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										RESP. ENG.	K. CRANSON	DATE 12 AUG 87			
										MFG.ENG.	F. BELLIVEAU	DATE 31 AUG 87			
										MAINTAINABILITY ENG.	G. SMITH	DATE 18 AUG 87			
										SHEET 1 OF 3	TOP DOC.	B-DO-TK70-0-DBU	SIZE CODE B RM	NUMBER TK70-0-DBU	REV. E
										DIST.					

SF 10

OPTION NAME		REVISIONS																		
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PART NO.	DESCRIPTION																			
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7023482-01	HEAD/BRACKET ASSY	A1	A1	A1	A1	A1														
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7023497-01	RECEIVER ASSY	A1	A1	--	--	--														
7024659-01	TACHOMETER ASSY	A1	A1	A1	B1	B1														
7021765-01	INSULATOR ASSY	A1	A1	A1	A1	A1														
7023517-01	BEZEL ASSY	A1	A1	--	--	--														
7428268-01	LEADER TAKE-UP	A2	A2	A2	A2	A2														
7432363-01	ENCLOSURE	A1	-	-	--	--														
7425652-01	SKIDPLATE	B3	B3	B3	B3	B3														
7434038-01	CAPSTAN	A1	A1	A1	A2	A2														
1123276-01	EOT/BOT LED ASSY	B1	B1	B1	B1	B1														
7427668-01	REEL, TAKE-UP	A2	A2	A2	B2	B2														
7435724-01	RETAINER, DAMPER	A1	A1	A1	A1	A1														
7435725-01	DAMPER, VIBRATION	A1	A1	A1	A1	A1														
7023477-01	REEL DRIVER ASSY	A1	A1	A1	A1	A1														
5417637-01	TK70 DRIVE BOARD	A1	A1	A1	A5	B5														
7436424-01	ENCLOSURE	-	A1	A1	A2	A2														
7023497-02	RECEIVER ASSY			A1	B1	B1														
7023517-02	BEZEL ASSY			A1	A1	A1														
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											B		RM		TK70-0-DBU		E			

SHO

OPTION NAME:	TK70-AA
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INFORMATION SHEET

RM ECO

TK70-SHO05

SET HARDWARE REVISION JUMPERS ON 54-17637-01 TO 4 SO THAT FIELD SERVICE CAN TRACK THE (ELECTRO-MECHANICAL) REVISION OF THE DRIVE.

BITS 0-4 ARE USED TO SET THE ELECTRO-MECHANICAL HARDWARE REVISION OF THE TK70.

					REV BITS				
	A	TP1	TP2	TP3	4	3	2	1	0
	B	TP9	TP10	TP11	TP4	TP5	TP6	TP7	TP8
	C	TP17	TP18	TP19	TP12	TP13	TP14	TP15	TP16
					TP20	TP21	TP22	TP23	TP24

- IF PINS IN ROW A & B ARE CONNECTED BY A JUMPER THEN SWITCH IS OFF.
- IF PINS IN ROW B & C ARE CONNECTED BY A JUMPER THEN SWITCH IS ON.

TK70 DRIVE REV.	JUMPER REV.	JUMPER BIT SETTINGS
DRIVE REVISION D	REV 4	4 3 2 1 0 OFF OFF ON OFF OFF

d	i	g	j	t	a	I	TITLE	TK70 REVISION MATRIX DOCUMENT	SHEET 3 OF 3	SIZE CODE	NUMBER	REV.
										B RM	TK70-0-DBU	E

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1 USED ON OPTION/MOD

DFI DRN.

DATE: TITLE:

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0 17 AUG 87

TOKYO OPTION KIT

100

MAN DATE: 31 AUG 87

TOKYO OPTION KIT

1

DATE: SIZE: C

CODE NUMBER

REV.

MAN DATE
31 AUG 87 R D

TOK 70 - O - DBU

A

DATE:
1-6-88 83

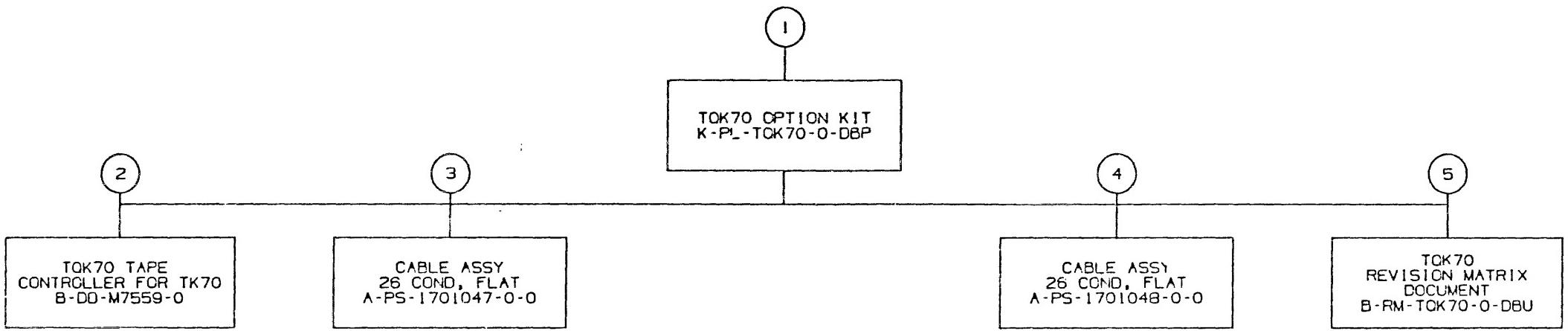
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| SEP 87 SHEET

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Page 1



TITLE: TOK70 OPTION KIT	SHEET 2 OF 3	SIZE B	CODE DD	NUMBER TOK70-0-DBU	REV. A
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TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL

Digitized

TITLE:

TOK70 OPTION KIT

SHEET 3 OF 3

SIZE CODE
B DD

NUMBER
TOK 70-0-DBU

REV.
A

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS												
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K-PL-M7559-0-DBP	- 2		PARTS LIST (SH288)	A	B	C	D	E*	F							
K-CS-M7559-0-DBX	-		CIRCUIT SCHEMATIC DATA BASE	A	A	B	B	B	B							
D-CS-M7559-0-1	10		CIRCUIT SCHEMATIC	A	A	INA	-	-	-							
K-PC-M7559-0-DBV	-		P.C. DESIGN DATA BASE	A	A	A	A	A	A							
	5017635-01		ETCH CIRCUIT BOARD	A1	A1	A1	A1	A1	A1							
B-DD-5017635-0	1		DRAWING DIRECTORY	A	A	A	A	B	B							
K-CS-M7559-0-1	10		CIRCUIT SCHEMATIC	-	-	B	B	B	B							
NOTES:																
REVISION HISTORY				DATE	ECO NO	REV	INIT	A	B	C	D	E	F			
				FEB 87			INIT		NOV 87	SH001						
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				JAN 89					JAN 89	SH003						
				APR 89					APR 89	SH004						
				AUG 89					AUG 89	SH005						
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SIZE - B												SHEET 1 OF 1				

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DRN.
R. KOPPEN

CHKD.
P. KOPPEN

R. ROTTENBERG
DES. ENG.
M. KEGELSON

M. KEARNHILL
RESP. ENG.

M.KEARNAN

TITLE :

TAK720 CONTROLLER

DOCUMENTATION NUMBER

DOCUMENTATION NUMBER

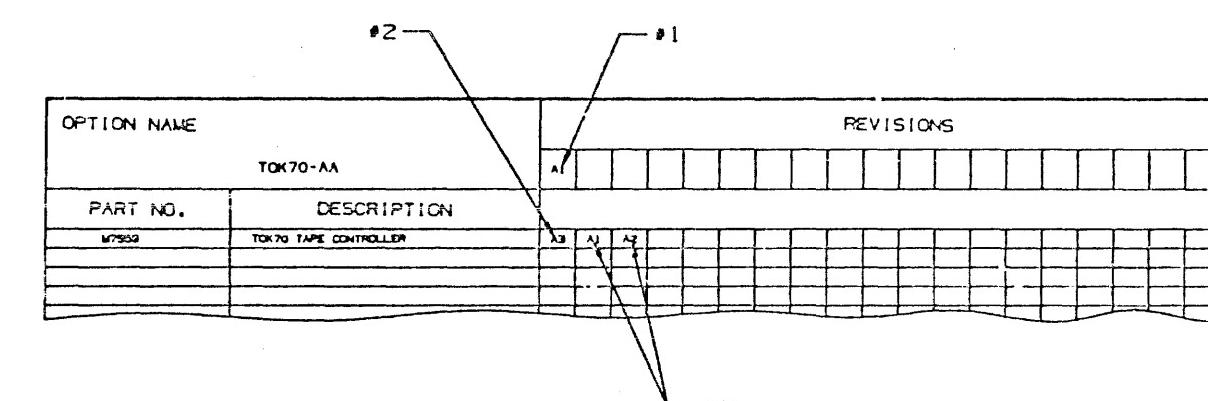
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OPTION NAME:	OPTION DESCRIPTION:	ECO DESCRIPTION
TOK70-AA		
RM ECO		



OPTION NAME **REVISIONS**
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